

AILET 2025 LL.B. Question Paper with Solutions

Section A

English

I. Read the given extract and answer the following questions by choosing the most appropriate answer.

The rise of renewable energy sources has become a crucial topic in the global fight against climate change. Solar and wind power, in particular, have gained traction due to their ability to provide clean energy while reducing dependence on fossil fuels. Governments worldwide are investing in technology to enhance energy efficiency and storage solutions, aiming to create a more sustainable energy landscape. As the costs of renewable technologies continue to decrease, the transition from traditional energy sources is becoming not only environmentally necessary but also economically viable. However, this transition faces several challenges. The intermittent nature of renewable energy sources, such as solar and wind, requires advancements in energy storage to ensure a reliable supply. Additionally, existing infrastructure often relies heavily on fossil fuels, necessitating significant investment to upgrade or replace systems. Policy makers must navigate these complexities, balancing environmental goals with economic realities. The future of energy will likely depend on collaboration between governments, industries, and consumers to foster innovation and implement sustainable practices.

Q1: What is one of the major challenges faced in the transition to renewable energy?

- a) The decreasing costs of fossil fuels
- b) The need for advancements in energy storage
- c) The complete lack of government interest
- d) The sheer abundance of fossil fuel resources

Correct Answer: b) The need for advancements in energy storage

Solution:

The major challenge in the transition to renewable energy is the need for better energy storage solutions. Renewable energy sources like solar and wind are intermittent, meaning they cannot consistently produce power at all times.

Energy storage is crucial for capturing excess power when renewable energy generation exceeds demand and for releasing it during periods of low generation.

Although the decreasing costs of fossil fuels (a) may seem relevant, they are not a significant challenge in transitioning to renewables. Similarly, the lack of government interest (c) and abundance of fossil fuels (d) do not address the primary issue, which is the need for reliable storage systems.

Quick Tip

The development of efficient energy storage systems is key to solving the intermittency issue of renewable energy sources.

Q2: According to the passage, what is essential for a successful transition to renewable energy?

- a) Collaboration among various stakeholders
- b) Increased fossil fuel production
- c) Over reliance on the existing infrastructure
- d) Eliminating all government regulations

Correct Answer: a) Collaboration among various stakeholders

Solution:

A successful transition to renewable energy requires the cooperation of multiple stakeholders, including governments, businesses, and communities. This collaboration is essential to overcoming the technological, economic, and logistical barriers to renewable energy adoption.

Over-reliance on existing infrastructure (c) and increasing fossil fuel production (b) would hinder progress. Eliminating all government regulations (d) would also be counterproductive, as regulations play a key role in ensuring sustainability and environmental protection.

Quick Tip

Successful energy transitions require broad collaboration to overcome technological, economic, and regulatory challenges.

Q3: Why is the transition to renewable energy described as becoming economically viable?

- a) Because fossil fuels are becoming more expensive
- b) Due to the decrease in costs of renewable technologies
- c) Due to government subsidies for fossil fuels
- d) Renewable energy sources are less reliable

Correct Answer: b) Due to the decrease in costs of renewable technologies

Solution:

The transition to renewable energy has become economically viable primarily because the costs of renewable technologies, such as solar panels, wind turbines, and energy storage systems, have dramatically decreased over time.

While fossil fuels may be getting more expensive (a), it is the fall in renewable technology costs that has made them competitive. The subsidies for fossil fuels (c) are actually a barrier to the renewable transition, not a catalyst. The reliability issue of renewable energy (d) is being addressed with better storage and grid integration.

Quick Tip

The economic viability of renewable energy is largely due to the significant drop in the cost of renewable technologies.

Q4: What does the term ‘intermittent nature’ refer to in the context of renewable energy sources?

- a) Their ability to provide consistent energy supply
- b) Their integration into existing infrastructure for production
- c) Their complete dependence on fossil fuels for energy
- d) Variability in energy production due to weather conditions

Correct Answer: d) Variability in energy production due to weather conditions

Solution:

The term “intermittent nature” refers to the variability in energy production from renewable sources such as wind and solar, which depend on weather conditions. For example, solar energy is only generated when the sun is shining, and wind energy is only available when there is wind.

Option (a) is incorrect because renewable energy sources do not provide a consistent supply due to their dependence on natural conditions. Option (b) addresses infrastructure but is not directly related to the variability of energy production. Option (c) is incorrect because renewable energy sources do not depend on fossil fuels.

Quick Tip

The ‘intermittent nature’ of renewable energy sources refers to their dependency on weather conditions, which causes variability in energy production.

Q5: Which of the following best describes the tone of the paragraph?

- a) Skeptical
- b) Dismissive
- c) Balanced
- d) Indifferent

Correct Answer: c) Balanced

Solution:

The tone of the paragraph is balanced because it presents both the challenges and the progress of the renewable energy transition without showing extreme bias or strong emotions. It acknowledges the issues, such as the intermittent nature of renewable sources, while also recognizing the advances in technology and storage solutions.

Option (a) “Skeptical” would imply doubt or disbelief, which is not reflected in the paragraph. Option (b) “Dismissive” would suggest a lack of respect or concern, which is also not present. Option (d) “Indifferent” would suggest no interest or concern, but the

paragraph demonstrates a balanced interest in the topic.

Quick Tip

A balanced tone presents both sides of an issue thoughtfully, without showing bias or strong emotions.

II. Read the given extract and answer the following questions by choosing the most appropriate answer. The levels of dissolved oxygen in the world's ocean waters are declining precipitously. Just like humans, fish need oxygen to survive, and so in ocean areas experiencing significant levels of oxygen scarcity, or hypoxia, fish populations are plummeting. Although some hypoxic areas, called "dead zones," occur naturally, hypoxia in coastal areas and inland waters is caused mainly by agricultural run-off and by discharge of industrial wastewater. More than one hundred permanent dead zones, many covering thousands of square miles, exist worldwide today. Since reproductive success is the most critical factor in the sustainability of any species, the extent of this threat to marine life and genetic diversity can hardly be overstated. After several months in hypoxic waters, female fish produce fewer eggs. Moreover, hypoxic conditions serve to alter the normal ratio between two particular hormones manufactured during the embryonic stage when a fish's gender is determined. During gestation and under these conditions, the mother produces more testosterone (and less estradiol), which inhibits the development of female reproductive organs and other female characteristics in the embryo, while promoting the development of male traits. The implications of declining oxygen levels extend beyond individual species to entire ecosystems. Marine biodiversity is at risk as species that cannot adapt to hypoxic conditions may face extinction, leading to a cascade of effects throughout the food web. Predators may struggle to find adequate prey, while other marine organisms, such as coral reefs, which rely on healthy fish populations for symbiotic relationships, may also deteriorate. The loss of biodiversity can disrupt ecosystem services that are essential for human communities, including fisheries, tourism, and coastal protection.

Q6: How does hypoxia affect female fish reproduction?

- a) It increases egg production
- b) It has no effect on reproduction
- c) It decreases egg production
- d) It improves the survival rate of embryos

Correct Answer: c) It decreases egg production

Solution:

Hypoxia, or low oxygen levels, negatively impacts the reproductive health of fish. It has been observed that female fish in hypoxic conditions produce fewer eggs, leading to a decrease in reproductive success.

Option (a) is incorrect because hypoxia does not increase egg production. Option (b) is also incorrect as hypoxia clearly affects reproduction. Option (d) is not accurate because hypoxia typically reduces survival rates, not improves them.

Quick Tip

Hypoxia reduces the reproductive output of female fish, decreasing egg production due to the lack of sufficient oxygen.

Q7: What term is used in the passage to describe areas with significantly low levels of oxygen?

- a) Oxygen-rich zones
- b) Dead zones
- c) Marine reserves
- d) Hypoxic waters

Correct Answer: b) Dead zones

Solution:

In the context of the passage, areas with significantly low levels of oxygen are referred to as "dead zones." These are areas where oxygen levels are so low that most marine life cannot survive.

Option (a) "Oxygen-rich zones" refers to areas with high oxygen levels, which is the opposite of dead zones. Option (c) "Marine reserves" refers to protected areas for marine life, and option (d) "Hypoxic waters" refers to areas with low oxygen, but the specific term used in the passage is "dead zones."

Quick Tip

"Dead zones" are areas in the ocean with very low oxygen levels, making it difficult for marine life to survive.

Q8: What effect do altered hormone levels during gestation have on fish embryos in hypoxic conditions?

- a) They promote the development of female traits
- b) They cause all embryos to become hermaphrodites
- c) They have no impact on gender determination
- d) They inhibit female traits and promote male traits

Correct Answer: d) They inhibit female traits and promote male traits

Solution:

Altered hormone levels during gestation in hypoxic conditions have been shown to inhibit the development of female traits and promote the development of male traits in fish embryos. This hormonal disruption can lead to skewed gender ratios in affected populations. Option (a) is incorrect because altered hormone levels do not promote female traits. Option (b) is incorrect as hypoxia does not cause all embryos to become hermaphrodites. Option (c) is incorrect because hormone disruption directly impacts gender determination.

Quick Tip

Hypoxia disrupts hormone levels during gestation, leading to the promotion of male traits and the inhibition of female traits in fish embryos.

Q9: What broader ecological impact does declining oxygen levels have, as mentioned in the passage?

- a) Increase in hypoxic fish populations
- b) Enrichment of coral reefs
- c) Disruption of entire ecosystems
- d) Degradation of marine biodiversity

Correct Answer: c) Disruption of entire ecosystems

Solution:

Declining oxygen levels lead to the disruption of entire ecosystems, as many marine organisms depend on oxygen-rich environments to survive. This disruption affects the food chain and the overall health of marine ecosystems.

Option (a) "Increase in hypoxic fish populations" is incorrect because hypoxia generally decreases fish populations. Option (b) "Enrichment of coral reefs" is not correct, as hypoxia harms coral reefs. Option (d) "Degradation of marine biodiversity" is a valid consequence, but the passage emphasizes ecosystem disruption.

Quick Tip

Declining oxygen levels can disrupt ecosystems by harming the organisms that depend on oxygen-rich environments.

Q10: Why is reproductive success critical for any species, according to the passage?

- a) It ensures the continuation of genetic diversity
- b) It determines the physical traits of the species
- c) It affects the feeding habits of the species
- d) It influences the increase in habitat size

Correct Answer: a) It ensures the continuation of genetic diversity

Solution:

Reproductive success is critical because it ensures the continuation of genetic diversity, which is necessary for the adaptability and survival of a species. A diverse gene pool allows a species to adapt to changing environmental conditions.

Option (b) "Physical traits" and option (c) "Feeding habits" are not the primary focus of reproductive success. Option (d) "Increase in habitat size" is unrelated to reproductive success.

Quick Tip

Reproductive success is essential for maintaining genetic diversity, which helps species adapt to environmental changes.

Q11: Which of the following implications of hypoxia is not mentioned in the passage?

- a) Permanent loss of fish populations in affected areas
- b) Changes in the gender ratio of fish populations
- c) Increased competition among fish species
- d) Decline in ecosystem services such as fisheries and tourism

Correct Answer: c) Increased competition among fish species

Solution:

The passage mentions the loss of fish populations, changes in gender ratios, and the decline in ecosystem services, but it does not specifically mention increased competition among fish species as an implication of hypoxia.

Option (a), (b), and (d) are directly addressed in the passage.

Quick Tip

Hypoxia has various ecological consequences, but increased competition among fish species is not specifically mentioned.

Q12: In the context of the passage, which of the following best characterizes the term 'sustainability'?

- a) Maintaining current fish populations at all costs including government initiatives
- b) Ensuring the reproductive success of marine species for future generations
- c) Focusing solely on economic benefits derived from marine resources
- d) Prioritizing industrial growth over environmental health

Correct Answer: b) Ensuring the reproductive success of marine species for future generations

Solution:

In the context of the passage, sustainability refers to ensuring the long-term reproductive success of marine species so that future generations can thrive. This approach balances ecological health and conservation with the needs of human society.

Option (a) focuses too much on current populations without considering future generations. Option (c) focuses only on economic benefits, and option (d) prioritizes industrial growth over environmental health, which contradicts the concept of sustainability.

Quick Tip

Sustainability is about ensuring that marine species can reproduce successfully for future generations, not just for short-term gain.

III. Read the book descriptions for three different books and answer the questions by choosing the most appropriate options

The Politics of Change	The Change in Politics	Politics and Change: A Global Perspective
In “The Politics of Change,” political analyst Dr. Emily Harper examines the dynamics of social movements and their impact on policy reform. Through detailed case studies, she explores how grassroots organizations, protests, and advocacy campaigns shape public opinion and influence lawmakers. Dr. Harper provides insights into the strategies that successful movements employ and discusses the challenges they face in a complex political landscape. She discusses key strategies, such as coalition-building, media engagement, and the use of digital platforms to amplify voices.	This book by veteran journalist Mark Stevens investigates the shifting political landscape in the 21st century. Focusing on major elections, emerging political parties, and the role of social media, Stevens analyzes how technology and demographics are transforming political engagement and voter behaviour. Through interviews with political leaders, campaign strategists, and everyday voters, Stevens uncovers how demographic shifts and technological advancements are reshaping political discourse in urban areas. He analyzes the implications of these changes for traditional political institutions and explores how movements like #MeToo and Black Lives Matter have disrupted conventional narratives.	In this insightful work, international relations scholar Dr. Anika Patel presents a global analysis of political change across various regions. She explores the factors that drive political transitions, including economic shifts, cultural movements, and international influences. Dr. Patel emphasizes the interconnectedness of global politics and how local changes can have far-reaching implications. She analyzes various factors driving political transitions, including economic upheaval, cultural shifts, and the impact of globalization. She provides case studies from diverse regions, such as the Arab Spring, democratic movements in Latin America, and shifts in power in Asia. The book serves as a vital resource for understanding the complexities of political evolution in a rapidly changing world.

Q13: In ‘The Politics of Change,’ Dr. Emily Harper analyzes various grassroots movements. Which of the following factors does she most likely attribute to the success of these movements?

a) The use of traditional media over social media

- b) The historical context of each movement's emergence
- c) The ability to engage a broad coalition of stakeholders
- d) The lack of governmental opposition

Correct Answer: c) The ability to engage a broad coalition of stakeholders

Solution:

Dr. Harper's analysis emphasizes the importance of building broad coalitions and engaging diverse stakeholders to create momentum for policy reform. Successful grassroots movements often depend on their ability to unite different groups and individuals, which amplifies their voice and increases their chances of influencing lawmakers.

Quick Tip

Coalition-building is a critical strategy for the success of social movements, as it allows them to pool resources, support, and influence from multiple sectors of society.

Q14: What major factors does Mark Stevens discuss in 'The Change in Politics' regarding the evolution of political engagement?

- a) Historical events and their consequences
- b) The role of technology and demographic changes
- c) Economic theories and their application
- d) Environmental issues affecting policy

Correct Answer: b) The role of technology and demographic changes

Solution:

Mark Stevens explores how technological advancements, particularly in social media, and demographic shifts are reshaping political engagement. Technology has made it easier for political parties and movements to reach voters, while demographic changes have altered voting patterns and political preferences.

Quick Tip

Technology and demographic changes are key drivers of political evolution, affecting how people engage with politics and shaping electoral outcomes.

Q15: In 'Politics and Change: A Global Perspective,' what does Dr. Anika Patel emphasize about the influence of local political changes?

- a) They have no impact on global politics
- b) The broad implications for international relations
- c) They only affect neighbouring countries
- d) They are primarily driven by economic factors

Correct Answer: b) The broad implications for international relations

Solution:

Dr. Patel highlights how local political changes can have significant global implications, affecting international relations, trade, and global security. These local shifts are interconnected with global systems, making their impact far-reaching.

Quick Tip

Local political changes, especially in key regions, can influence international policies, trade agreements, and diplomatic relations.

Q16: Which of the following strategies does Dr. Emily Harper argue is essential for social movements to effectively influence policy reform in "The Politics of Change"?

- a) Sole reliance on traditional media
- b) Engaging in public apathy
- c) Utilizing digital platforms for outreach
- d) Focusing exclusively on local issues

Correct Answer: c) Utilizing digital platforms for outreach

Solution:

Dr. Harper argues that social movements need to adapt to the digital age by leveraging online platforms to reach a wider audience, mobilize supporters, and pressure policymakers. Social media is a powerful tool for creating awareness and galvanizing action.

Quick Tip

Digital platforms provide an invaluable space for movements to organize, communicate, and advocate for change on a global scale.

Q17: Dr. Anika Patel's 'Politics and Change: A Global Perspective' explores the effects of globalization on local politics. Which of the following concepts is most likely a focus of her analysis?

- a) The isolation of national policies
- b) The role of international organizations in local governance
- c) The historical significance of colonialism on current political structures
- d) The effectiveness of local movements in a globalized world

Correct Answer: b) The role of international organizations in local governance

Solution:

Dr. Patel's work focuses on how globalization has impacted local governance, with a particular emphasis on the role international organizations play in shaping national policies. These organizations often influence local political structures through funding, advocacy, and policy recommendations.

Quick Tip

Globalization has made the influence of international organizations on local politics more prominent, affecting governance, development policies, and global cooperation.

Q18: In ‘The Change in Politics,’ Mark Stevens highlights demographic shifts as a transformative factor in politics. Which demographic change might he argue has the most significant influence on recent electoral outcomes?

- a) The aging population’s impact on social security policy
- b) The increasing diversity of voters in urban areas
- c) The decline trend of rural populations
- d) The rise in youth voter participation in midterm elections

Correct Answer: b) The increasing diversity of voters in urban areas

Solution:

Stevens discusses how urban areas, which are increasingly diverse, are playing a major role in shaping electoral outcomes. The rise of diverse voter groups in cities has led to shifts in political priorities and has changed the strategies of political campaigns.

Quick Tip

The increasing diversity of urban populations has significant implications for political campaigns and policy priorities, especially in elections.

Q19: In ‘Politics and Change: A Global Perspective,’ Dr. Anika Patel emphasizes the interconnectedness of political systems. According to the passage, which approach would Dr. Anika Patel be most likely to use to assess the impact of local changes on global politics?

- a) A purely economic lens focusing on trade relations
- b) A cultural approach examining regional identities
- c) A systemic analysis of international relations theories
- d) A narrative approach emphasizing personal stories of political figures

Correct Answer: c) A systemic analysis of international relations theories

Solution:

Dr. Anika Patel emphasizes the systemic nature of political change, which involves understanding the interconnections between local and global politics. By using international relations theories, she can analyze how local events can ripple through to influence global systems, making this approach the most suitable.

Quick Tip

A systemic approach to political analysis takes into account the broader global context, making it possible to assess the interconnectedness of political changes.

Q20: In ‘The Change in Politics,’ Mark Stevens highlights the role of digital platforms in political engagement. Which of the following outcomes would he most likely argue is a direct consequence of increased digital engagement?

- a) A decrease in overall voter turnout due to information overload
- b) Enhanced polarization among voters as a result of targeted content
- c) A uniform political discourse across different demographics
- d) An increase in apathy as digital engagement replaces real-world activism

Correct Answer: b) Enhanced polarization among voters as a result of targeted content
Solution:

Mark Stevens argues that digital platforms, especially social media, can create “echo chambers,” where voters are exposed primarily to content that aligns with their views. This targeted content can amplify existing divisions, leading to increased polarization among voters.

Quick Tip

Digital platforms often intensify polarization by tailoring content to users’ preferences, leading to more extreme and divided viewpoints.

Q21: Dr. Anika Patel’s ‘Politics and Change: A Global Perspective’ posits that local political movements are interconnected with global trends. Which of the following would best illustrate this relationship?

- a) Local protests against environmental policies influencing international climate agreements
- b) National elections occurring independently of global economic conditions
- c) Cultural differences leading to isolated local movements without global relevance
- d) The presence of international influence in local governance decisions

Correct Answer: a) Local protests against environmental policies influencing international climate agreements
Solution:

Dr. Patel’s work emphasizes the global impact of local movements. Local protests, such as those demanding action on climate change, can influence international policy and contribute to global movements. The interconnectedness of local and global political systems is highlighted here.

Quick Tip

Local movements, particularly in areas like environmental policy, often trigger broader international debates and agreements.

Q22: Considering Dr. Anika Patel's arguments in 'Politics and Change: A Global Perspective,' which of the following statements would best summarize her perspective on the role of local leaders in a globalized world?

- a) Local leaders are primarily responsible for maintaining national sovereignty
- b) They have limited influence on global issues and should focus on local governance
- c) Their actions can create a ripple effect that influences international policy
- d) They are often overlooked in favour of national leaders in global discussions

Correct Answer: c) Their actions can create a ripple effect that influences international policy

Solution:

Dr. Patel argues that local leaders play a critical role in global politics, as their decisions and actions often have far-reaching consequences. Local policies and movements can influence global trends, making their impact significant on the international stage.

Quick Tip

Local leaders can drive global change through policies and actions that resonate internationally, influencing global governance and discourse.

IV. Read the following passage and answer the following questions by choosing the most appropriate answer. The intricate world of modern manufacturing is a web of precision and innovation, where even the tiniest components play a pivotal role. One such element, often overlooked but crucial, is the sub-subpart. Whether it's a carpenter fashioning a bespoke piece of furniture or an automobile engineer designing the next generation of vehicles, the creation of sub-subparts is a fundamental process that demands meticulous craftsmanship and cutting-edge technology. In the realm of woodworking, carpenters frequently work with sub-subparts like dowels, screws, and hinges. These minute components may appear insignificant, yet they determine the structural integrity and functionality of the final product. Crafting a dowel, for instance, begins with selecting the appropriate wood species, followed by precision cutting and shaping. The result is a perfectly cylindrical, sturdy sub-subpart that seamlessly joins two larger pieces of wood. The advent of computer-aided design (CAD) and computer numerical control (CNC) machines has revolutionised this process, enabling carpenters to create sub-subparts with unparalleled precision. Similarly, in the automobile industry, sub-subparts are the unsung heroes of vehicle construction. Take, for instance, the ball bearing—a minuscule but essential component in the wheels and transmission system. Manufacturing these precision-engineered spheres involves intricate processes like forging, heat treatment, and

precision machining. Modern techniques such as laser cutting and 3D printing have streamlined production, ensuring that these sub-subparts meet the demanding standards of the automotive sector. The manufacturing of sub-subparts is a testament to the convergence of traditional craftsmanship and cutting-edge technology. Whether it's a carpenter's workshop or a high-tech automotive assembly line, the quest for perfection in sub-subpart creation remains unwavering. The attention to detail and precision required in these processes is a testament to the dedication of craftsmen and engineers alike. To conclude, while sub-subparts may be small in size, their significance in various industries cannot be overstated. Whether it's a carpenter working on a timeless piece of furniture or an automotive engineer striving for superior performance, the manufacturing of sub-subparts is a crucial step towards achieving excellence in craftsmanship and technology. This fusion of tradition and innovation accentuates the essence of modern manufacturing.

Q23: In the intricate world of modern manufacturing, the sub-subpart can be compared to:

- a) The foundation of a building
- b) The finishing touches on a masterpiece painting
- c) The ingredients of a gourmet dish
- d) The alphabet in a language

Correct Answer: d) The alphabet in a language

Solution:

A sub-subpart is a fundamental building block, much like the alphabet in a language. Just as individual letters form words and sentences, sub-subparts combine to form the core of a larger manufacturing or carpentry process. Each one is essential for the final product's structure and function.

Quick Tip

Sub-subparts are foundational elements in manufacturing, much like letters in a language, forming the building blocks of more complex processes.

Q24: According to the passage, what is the primary reason modern carpenters use computer-aided design (CAD)?

- a) To select the most expensive wood species
- b) To replace traditional woodworking tools
- c) To revolutionize precision and enhance craftsmanship
- d) To create unique, one-of-a-kind furniture designs

Correct Answer: c) To revolutionize precision and enhance craftsmanship

Solution:

Modern carpenters use CAD primarily to enhance precision and craftsmanship. CAD tools allow for accurate measurements, designs, and adjustments, significantly improving the quality and efficiency of woodworking projects. Options a, b, and d, though relevant to certain aspects of carpentry, do not capture the main reason CAD is employed.

Quick Tip

CAD revolutionizes woodworking by improving design precision, allowing carpenters to enhance craftsmanship.

Q25: What is the overarching message conveyed by the passage regarding the significance of sub-subparts in carpentry?

- a) Sub-subparts are an outdated concept in modern carpentry
- b) Sub-subparts are primarily aesthetic and don't affect functionality
- c) Sub-subparts play a pivotal role in ensuring the quality and functionality of woodworking projects
- d) Sub-subparts are exclusively used in the automotive industry

Correct Answer: c) Sub-subparts play a pivotal role in ensuring the quality and functionality of woodworking projects

Solution:

The passage emphasizes that sub-subparts are essential in carpentry because they are integral to both the functionality and quality of the finished product. These components ensure that the woodworking process meets the desired standards and remains functional. Options a, b, and d misinterpret the role of sub-subparts in carpentry.

Quick Tip

Sub-subparts are crucial for ensuring the quality and functionality of the final product in carpentry.

Q26: Which term best characterises the fusion of traditional craftsmanship and cutting-edge technology in the context of creating sub-subparts, as discussed in the passage?

- a) Dichotomy
- b) Outmodedness
- c) Paradox
- d) Synergy

Correct Answer: d) Synergy

Solution:

The fusion of traditional craftsmanship with modern technology represents a synergy, where both elements work together to enhance the final product. This contrasts with options like dichotomy, which implies contradiction, and outmodedness, which suggests being outdated. Paradox implies a contradiction, but in this case, the combination of the old and new is complementary.

Quick Tip

Synergy occurs when traditional methods and modern technology complement each other, leading to a stronger final result.

Q27: Assertion (A): Sub-subparts like dowels and screws are often overlooked in wood-working.

Reasoning (R): Sub-subparts play a crucial role in determining the structural integrity and functionality of the final product.

Select the option that applies correctly to the assertion and reasoning.

- a) Both (A) and (R) are true, and (R) is the correct explanation of (A)
- b) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- c) (A) is true, but (R) is false
- d) (A) is false, but (R) is true

Correct Answer: b) Both (A) and (R) are true, but (R) is not the correct explanation of (A)

Solution:

Both statements are true:

Assertion (A) is true because dowels, screws, and other small subparts are often overlooked in woodworking. Reasoning (R) is also true because sub-subparts play an important role in the structural integrity and functionality of the final product. However, Reasoning (R) does not directly explain why these subparts are often overlooked. The reasons for overlooking may involve lack of attention to detail or underestimating their importance, not just their functional significance. Therefore, (R) is not the correct explanation of (A).

Quick Tip

When evaluating assertion and reasoning, check if the reasoning logically explains the assertion. In this case, the reasoning is true but does not directly explain why dowels and screws are overlooked.

Q28: The author would probably agree with which of the following statements?

- a) Sub-subparts are irrelevant in modern carpentry
- b) Modern techniques like laser cutting have improved precision in sub-subpart creation
- c) Traditional craftsmanship has no place in woodworking today
- d) Sub-subparts are only used for aesthetic purposes in carpentry

Correct Answer: b) Modern techniques like laser cutting have improved precision in sub-subpart creation

Solution:

The author emphasizes the importance of precision and craftsmanship, which has been

enhanced through modern techniques such as laser cutting. Option (b) is consistent with the passage's view on how innovation in technology contributes to better sub-subpart creation. The other options either dismiss the value of sub-subparts or traditional methods, which contradicts the passage's message.

Quick Tip

Modern technology, such as laser cutting, plays a key role in improving precision in creating sub-subparts.

Q29: Which of the following might the author cite as an example of the fusion of traditional craftsmanship and cutting-edge technology, as described in the passage?

- a) The decline of traditional woodworking methods
- b) The exclusive use of 3D printing in carpentry
- c) The abandonment of sub-subparts in modern carpentry
- d) The use of CAD for designing wood pieces

Correct Answer: d) The use of CAD for designing wood pieces

Solution:

The author would likely cite CAD (Computer-Aided Design) as an example of how traditional craftsmanship and modern technology are being integrated. CAD allows for precise design and planning, supporting the use of traditional methods while incorporating technological advancements. Options (a), (b), and (c) refer to concepts that contradict the fusion of tradition and innovation.

Quick Tip

CAD is an example of integrating traditional methods with cutting-edge technology in woodworking.

Q30: Given the author's position on the importance of sub-subparts in carpentry, what stand would the author probably take on the issue of using alternative materials in woodworking?

- a) The author would likely advocate for alternative materials
- b) The author would likely reject alternative materials in favour of traditional ones
- c) The author's stance on alternative materials is unclear
- d) The author would likely argue for a balanced approach, incorporating both traditional and modern materials

Correct Answer: d) The author would likely argue for a balanced approach, incorporating both traditional and modern materials

Solution:

Based on the passage, the author likely advocates for a balanced approach, using both traditional and modern materials to enhance carpentry. This reflects the overall message

of blending the old and the new to create better products. The author doesn't completely reject alternative materials (option b), nor is the stance unclear (option c).

Quick Tip

A balanced approach incorporating both traditional and modern materials is ideal in modern carpentry.

Q31: Which of the following lines best summarises the essence of the conclusion regarding the significance of sub-subparts in modern manufacturing?

- a) Traditional craftsmanship is no longer relevant in today's industries
- b) Sub-subparts are insignificant in modern manufacturing compared to larger components
- c) The fusion of tradition and innovation stresses the importance of sub-subparts in modern manufacturing
- d) Manufacturers should prioritise speed and quantity over craftsmanship

Correct Answer: c) The fusion of tradition and innovation stresses the importance of sub-subparts in modern manufacturing

Solution:

The conclusion highlights the importance of sub-subparts in modern manufacturing, emphasizing the fusion of traditional craftsmanship with modern technological innovations. Option (c) best summarizes this message. The other options either diminish the value of craftsmanship or sub-subparts, which contradicts the passage's message.

Quick Tip

The importance of sub-subparts in modern manufacturing lies in the fusion of traditional craftsmanship with innovation.

V. Read the following passage and answer the following questions by choosing the most appropriate answer.

The Story of Coffee

Coffee, a beloved beverage enjoyed by millions around the globe, has a rich and captivating history that spans centuries. The story of coffee begins in the ancient highlands of Ethiopia, where, according to legend, a goat herder named Kaldi discovered the stimulating effects of coffee beans. One day, Kaldi noticed his goats frolicking with unusual energy after eating red berries from a certain tree. Curious, he tried the berries himself and experienced a newfound alertness. This discovery soon spread to monasteries, where monks used it to stay awake during long hours of prayer. From Ethiopia, coffee cultivation and consumption spread to the Arabian Peninsula, particularly in Yemen, where the practice of roasting coffee beans and brewing the drink began to take shape. By the 15th century, coffee had become a popular beverage in the Islamic world, with coffee houses

known as ‘qahveh khaneh’ emerging as social hubs for conversation, music, and intellectual exchange. These coffee houses became centers of culture and commerce, influencing the spread of coffee to Turkey and beyond, eventually reaching Europe. In Europe, coffee initially faced resistance from religious authorities who considered it a ‘Muslim drink’ and tried to ban it. However, its popularity persisted, and by the 17th century, coffee houses had sprung up in major European cities, becoming important gathering places for artists, writers, and thinkers. The stimulating effects of coffee were embraced during the Age of Enlightenment, where it was seen as a catalyst for intellectual discussion and innovation. The journey of coffee continued with the establishment of colonial plantations in tropical regions such as the Caribbean, Central and South America, and Southeast Asia. These plantations fuelled the global demand for coffee, transforming it from a regional specialty to a major commodity. The industrial revolution further accelerated coffee production and consumption, leading to innovations in coffee brewing methods and the development of instant coffee. In the modern era, coffee has evolved into a deeply ingrained part of daily life for people worldwide. Its cultural significance spans from the bustling cafes of Paris to the quiet coffee farms of Colombia. Today, coffee remains not only a popular beverage but also a symbol of social interaction, productivity, and enjoyment. Whether sipped slowly over a conversation with friends or grabbed hastily on the way to work, the story of coffee continues to unfold, intertwining with the histories and cultures of countless societies across the globe.

Q32: What did Kaldi observe that led to the discovery of coffee?

- a) Monks brewing coffee in a monastery
- b) Goats eating red berries and becoming energetic
- c) Coffee beans being roasted in a coffee house
- d) Coffee plantations being established

Correct Answer: b) Goats eating red berries and becoming energetic

Solution:

Kaldi, the goat herder, is said to have observed that his goats became energetic after eating red berries, which led to the discovery of coffee. This story is one of the most famous legends about coffee’s discovery. The other options (a), (c), and (d) are not historically accurate in this context.

Quick Tip

Kaldi’s discovery of coffee came from observing how goats reacted to the red berries they consumed.

Q33: How did the Industrial Revolution impact coffee consumption?

- a) It led to the decline of coffee popularity
- b) It resulted in the establishment of coffee plantations in Europe
- c) It accelerated coffee production and introduced new brewing methods
- d) It made coffee an exclusive drink for the wealthy

Correct Answer: c) It accelerated coffee production and introduced new brewing methods

Solution:

The Industrial Revolution helped to increase coffee production significantly and introduced new brewing methods, making coffee more accessible to a larger population. The other options are incorrect as the Industrial Revolution did not lead to a decline in coffee popularity (a), nor did it result in European coffee plantations (b) or make coffee exclusive to the wealthy (d).

Quick Tip

The Industrial Revolution played a key role in making coffee more widely available, due to improvements in production and brewing technology.

Q34: Consider the following statement - Coffee originated in Ethiopia and quickly spread to the Arabian Peninsula and beyond, where it became popular. Which of the following best supports the statement?

- a) Coffee houses transformed into vital centers of cultural exchange and economic activity within the Islamic world
- b) Monastic communities utilized coffee as a means to enhance concentration during extended periods of prayer
- c) The invigorating properties of coffee gained significant appreciation among intellectuals during the Age of Enlightenment
- d) The dissemination of coffee from Ethiopia catalyzed its cultivation across various regions, including Turkey and Europe

Correct Answer: d) The dissemination of coffee from Ethiopia catalyzed its cultivation across various regions, including Turkey and Europe

Solution:

The statement highlights that coffee originated in Ethiopia and spread widely. Option d) supports this by explaining that the dissemination of coffee from Ethiopia led to its cultivation in regions such as Turkey and Europe. This directly aligns with the idea of coffee spreading beyond Ethiopia and becoming popular in different areas.

Quick Tip

When considering questions about the spread of cultural phenomena, look for options that describe geographical expansion and the spread of influence.

Q35: Statement 1: The introduction of coffee to the European market was met with immediate acceptance and no resistance from religious authorities. Statement 2: The cultural significance of coffee houses in Europe during the Age of Enlightenment extended beyond mere beverage consumption to become venues for political

and philosophical discourse.

Choose the correct option:

- a) Both Statement 1 and Statement 2 are true
- b) Statement 1 is true, but Statement 2 is false
- c) Statement 1 is false, but Statement 2 is true
- d) Both Statement 1 and Statement 2 are false

Correct Answer: c) Statement 1 is false, but Statement 2 is true

Solution:

While coffee houses became important centers for intellectual discourse during the Age of Enlightenment, the introduction of coffee to Europe was met with some resistance, particularly from religious authorities who initially viewed it with suspicion. Therefore, Statement 1 is false, but Statement 2 is true.

Quick Tip

Coffee houses became key places for political and philosophical debates during the Age of Enlightenment.

Q36: What does the phrase ‘emerging as social hubs’ mean in the context of the passage?

- a) Gradually becoming popular locations for individual study and reflection
- b) Gradually becoming isolated areas with limited social activity and interaction
- c) Transforming into commercial businesses with some community involvement
- d) Developing into centers for community interaction and cultural exchange

Correct Answer: d) Developing into centers for community interaction and cultural exchange

Solution:

In the context of the passage, “emerging as social hubs” refers to the transformation of places like coffee houses into centers of community interaction, where people gathered to share ideas and engage in cultural exchange. Options (a) and (b) don’t align with the meaning of a “social hub”, while (c) focuses more on commercial aspects, which isn’t the intended meaning.

Quick Tip

Social hubs are places where people gather for interaction and cultural exchange, not just individual reflection.

Q37: Which of the following words is a synonym for “cultivation” as used in the context of the passage?

- a) Development

- b) Tending
- c) Growth
- d) Destruction

Correct Answer: a) Development

Solution:

In the context of the passage, "cultivation" refers to the act of Development to and caring for crops or plants, making "Development" the most appropriate synonym. "tending" and "growth" are related but don't capture the specific meaning of "cultivation" in this context. "Destruction" is the opposite of cultivation and therefore incorrect.

Quick Tip

"Cultivation" refers to the care and Development of crops or plants, not just growth or tending.

Q38: Which among the following sentences uses the word 'frolicking' in the same sense as used in the passage?

- a) The athletes were frolicking about their training regimen before the competition
- b) The children were frolicking along the beach, their joy palpable in the cool evening air
- c) She found the frolicking music to be very relaxing during her study session
- d) The artist spent the afternoon frolicking with her paintbrushes on the canvas

Correct Answer: b) The children were frolicking along the beach, their joy palpable in the cool evening air

Solution:

The word "frolicking" refers to playful, lively movement, and in this context, option (b) best matches the sense of "frolicking" in the passage, as it describes carefree and joyful play. The other options use "frolicking" in contexts that don't capture the same playful, energetic meaning.

Quick Tip

"Frolicking" refers to lively, carefree, or playful movement, typically in a joyful context.

Q39: Statement 1: The spread of coffee cultivation in tropical regions was solely driven by domestic consumption in Ethiopia.

Statement 2: The global demand for coffee prompted the establishment of plantations in various parts of the world, significantly influencing trade patterns.

Choose the correct option:

- a) Both Statement 1 and Statement 2 are true
- b) Statement 1 is true, but Statement 2 is false

- c) Statement 1 is false, but Statement 2 is true
- d) Both Statement 1 and Statement 2 are false

Correct Answer: c) Statement 1 is false, but Statement 2 is true

Solution:

Statement 1 is incorrect because coffee cultivation spread beyond Ethiopia due to global demand, not just domestic consumption. Statement 2 is true, as the global demand for coffee did indeed prompt the establishment of plantations worldwide, which in turn had a major impact on global trade patterns.

Quick Tip

The spread of coffee was largely driven by global demand, not just local consumption in Ethiopia.

Q40: What factors contributed to the transformation of coffee from a regional specialty to a major global commodity?

- a) The establishment of colonial plantations and the growing global demand for coffee
- b) The initial rejection of coffee by European consumers and its subsequent revival
- c) The decrease in the prominence of coffee houses and a transition to home brewing
- d) The popularity of instant coffee and a growing preference for tea instead of coffee

Correct Answer: a) The establishment of colonial plantations and the growing global demand for coffee

Solution:

The establishment of colonial plantations and the growing global demand were key factors in coffee's transformation into a major global commodity. Coffee became a widespread product largely due to colonial efforts and international trade. Option (b) does not directly address the broader transformation, and (c) and (d) are irrelevant to the major global status of coffee.

Quick Tip

Colonial plantations and global demand played significant roles in making coffee a global commodity.

Q41: In what ways has coffee maintained its cultural significance in modern society?

- a) Coffee is only enjoyed in traditional ceremonies and has lost its daily appeal
- b) Coffee is now primarily consumed in fast food chains, diminishing its cultural role
- c) Coffee has become a luxury item, only accessible to wealthy consumers
- d) Coffee remains a popular beverage and symbolizes social interaction

Correct Answer: d) Coffee remains a popular beverage and symbolizes social interaction

Solution:

Coffee has maintained its cultural significance largely because it is a widely consumed beverage that continues to symbolize social interaction, whether in coffee shops or casual gatherings. Options (a), (b), and (c) incorrectly limit coffee's cultural role, either to ceremonies, fast food chains, or as a luxury item.

Quick Tip

Coffee remains an essential part of social interactions in modern society, beyond just its ceremonial uses.

VI. Read the excerpt from a Handicrafts Manual: ‘Advanced Knitting Techniques’ and answer the following questions by choosing the most appropriate answer.

THE FAIR ISLE METHOD: Fair Isle knitting is a traditional technique that involves using two or more colours of yarn in a single row to create intricate patterns and designs. This method requires careful tension management to ensure even stitches and prevent puckering. To begin, select your colours and cast on the desired number of stitches. As you knit, alternate between colours every few stitches, carrying the unused yarn along the back of the work. Mastering the Fair Isle technique allows you to create stunning visual effects in garments, accessories, and home textiles.

THE CONTINENTAL STYLE: The Continental knitting style, often referred to as “picking,” involves holding the yarn in the left hand while the right hand manipulates the needles. This method allows for greater speed and efficiency, particularly when working with complex patterns or multiple colours. To practice this style, start by casting on your stitches and using your left hand to tension the yarn. With each stitch, simply “pick” the yarn with your right needle, forming a quick and fluid motion. As you become comfortable with this technique, you may find that your overall knitting speed and comfort improve significantly.

THE SHORT-ROW TECHNIQUE: Short-row knitting is an advanced technique that allows for the creation of shaped garments, such as sleeves and shoulders, without the need for complex shaping. To make a sleeve using this technique, begin by casting on the required number of stitches. Work a portion of the row, then turn your work and return without completing the full row to create the “short rows” that shape the curves of the sleeve. To prevent holes at the turn, wrap the stitch before you turn your work. Repeat this process as needed to achieve the desired shaping and dimension of the sleeve. Once you have shaped the sleeve, you can then sew the side seams to connect the pieces of your garment and finally, complete the edges to ensure a clean finish. This method not only helps shape curves but also adds dimension to your piece, allowing you to enhance fit and style.

Q42: Ensuring ‘even stitches and prevent puckering’ refers to the

- a) Tension management
- b) Colour selection
- c) Yarn thickness
- d) Stitch pattern

Correct Answer: a) Tension management

Solution:

The phrase “even stitches and prevent puckering” refers to managing tension in knitting. Proper tension ensures that stitches are uniform and that fabric doesn’t pucker. Options (b), (c), and (d) are less relevant in directly addressing stitch uniformity and puckering.

Quick Tip

Maintaining consistent tension is key to achieving even stitches and preventing puckering.

Q43: What is the correct order of stitching steps to make a sleeve using the short-row technique?

- a) Cast on stitches, create short rows, sew side seams, finish edges
- b) Create short rows, cast on stitches, sew side seams, finish edges
- c) Sew side seams, cast on stitches, create short rows, finish edges
- d) Cast on stitches, sew side seams, finish edges, create short rows

Correct Answer: a) Cast on stitches, create short rows, sew side seams, finish edges

Solution:

To make a sleeve using the short-row technique, the process begins by casting on stitches, then creating short rows to shape the sleeve, followed by sewing the side seams, and finally finishing the edges. This order ensures the proper shaping and construction of the sleeve.

Quick Tip

Start by casting on, shaping with short rows, and finish by sewing and edging for best results.

Q44: What is the primary focus of the Fair Isle method?

- a) Creating seamless garments
- b) Using multiple colours for intricate patterns
- c) Speed and dexterity in knitting
- d) Shaping complex garments using coloured yarns

Correct Answer: b) Using multiple colours for intricate patterns

Solution:

The Fair Isle method focuses on creating intricate patterns using multiple colors of yarn, typically in a circular or flat knitting style. It does not primarily address the speed or dexterity of knitting or the creation of seamless garments.

Quick Tip

Fair Isle knitting is known for its use of multiple yarns to create colorful and detailed patterns.

Q45: What does the emphasis on wrapping the stitch before turning suggest about the short-row technique?

- a) It is a complicated method that requires extensive practice
- b) It is only relevant for advanced knitters
- c) Proper execution is crucial to ensure a polished finish
- d) It is optional and can be skipped for faster results

Correct Answer: c) Proper execution is crucial to ensure a polished finish

Solution:

Wrapping the stitch before turning in short-row technique is essential for ensuring a smooth and polished finish, preventing gaps and holes. It is not optional and should not be skipped for better results.

Quick Tip

Wrapping the stitch properly ensures a clean, gap-free finish when using short-rows.

Q46: Based on the description of the Continental style, which of the following can be inferred about its efficiency?

- a) It is slower than other knitting methods
- b) It is best suited for complex patterns only
- c) It requires more yarn than traditional methods
- d) It enables quicker advancement in design

Correct Answer: d) It enables quicker advancement in design

Solution:

The Continental knitting style is typically faster than other methods because it involves holding the yarn in the left hand, making the process more efficient. It is not specifically tied to complex patterns or requiring more yarn.

Quick Tip

Continental knitting increases speed and efficiency, especially for advanced designs.

Q47: Considering the techniques discussed, what might be inferred about the overall skill level required for mastering Fair Isle and Continental knitting?

- a) Both techniques can be mastered without any prior experience
- b) Advanced techniques require a strong foundation in basic knitting skills
- c) They are accessible only to expert knitters with years of experience
- d) No specific skills are necessary for these techniques

Correct Answer: b) Advanced techniques require a strong foundation in basic knitting skills

Solution:

Both Fair Isle and Continental knitting techniques are advanced and require a good foundation in basic knitting. Without these foundational skills, mastering these techniques would be difficult.

Quick Tip

Mastering Fair Isle and Continental knitting is easier when you have a solid foundation in basic knitting.

Q48: Which option includes the most appropriate meaning of the underlined phrase in the given sentence? “With each stitch, simply pick the yarn with your right needle, forming a quick and fluid motion.”

- a) Grasp the yarn firmly
- b) Lift the yarn easily
- c) Catch the yarn smoothly
- d) Pull the yarn tightly

Correct Answer: c) Catch the yarn smoothly

Solution:

The phrase “pick the yarn” refers to catching it smoothly with the needle, rather than grasping or pulling it tightly. Option (c) best reflects this motion.

Quick Tip

“Pick the yarn” refers to a smooth and gentle motion to catch the yarn with the needle.

Q49: What can be inferred about the relationship between mastering ad-

vanced knitting techniques and a knitter's design capabilities?

- a) Mastering advanced techniques limits a knitter's creativity to specific patterns
- b) Advanced techniques enhance a knitter's ability to create innovative and varied designs
- c) Mastery of these techniques is irrelevant to design capabilities
- d) A knitter can achieve the same results using only basic techniques

Correct Answer: b) Advanced techniques enhance a knitter's ability to create innovative and varied designs

Solution:

Mastering advanced techniques in knitting expands a knitter's design possibilities, allowing them to create more complex and innovative patterns. It does not restrict creativity.

Quick Tip

Advanced techniques enhance creativity and design flexibility in knitting.

Q50: How might the integration of both the Fair Isle method and the short-row technique influence a knitter's approach to garment construction?

- a) It streamlines the process, making it easier for all skill levels to create garments
- b) It fosters creativity through intricate designs, needing advanced skills to execute
- c) It restricts the knitter to simple patterns, limiting creative possibilities
- d) It minimizes the need for precision, allowing for a more relaxed approach to knitting

Correct Answer: b) It fosters creativity through intricate designs, needing advanced skills to execute

Solution:

The combination of the Fair Isle method and the short-row technique allows for intricate colorwork and shaping, which can lead to highly creative and complex designs. However, these methods require a strong understanding of knitting techniques and attention to detail, making them more suitable for advanced knitters. Options (a), (c), and (d) are not accurate as the techniques require precision and skill rather than simplifying or relaxing the process.

Quick Tip

Fair Isle and short-row techniques allow for intricate designs but require careful execution and advanced skills.

Section B

Current Affairs and General Knowledge

Q51: Which nation became the first country to adopt Bitcoin as a legal tender?

- a) Nigeria
- b) El Salvador
- c) Republic of Turkey
- d) Central African Republic

Correct Answer: b) El Salvador

Solution:

El Salvador made history as the first country in the world to adopt Bitcoin as a legal tender on September 7, 2021. This decision allowed Bitcoin to be used for payments of goods and services, along with the national currency, the US dollar. The move was highly controversial but also seen as a major step towards cryptocurrency integration into national economies. Options (a), (c), and (d) are incorrect as none of these nations have adopted Bitcoin as a legal tender.

Quick Tip

El Salvador was the first country to make Bitcoin legal tender, marking a milestone in cryptocurrency adoption.

Q52: Which among the following is considered the world's largest stateless population?

- a) Chakmas
- b) Feyli Kurd
- c) Rohingyas
- d) Tibetan Refugees

Correct Answer: c) Rohingyas

Solution:

The Rohingya people, an ethnic minority from Myanmar, are considered the world's largest stateless population. Due to their stateless status, they face severe discrimination, persecution, and violence, particularly in Myanmar, leading to a large-scale displacement to neighboring countries like Bangladesh. The other groups mentioned, such as the Chakmas and Feyli Kurds, are also stateless, but their populations are not as large as the Rohingyas.

Quick Tip

The Rohingyas are the largest stateless population, largely due to their lack of recognition in Myanmar.

Q53: Which athlete achieved the distinction of becoming the first Indian athlete from independent India to win two medals in a single edition of the Summer Olympics?

- a) Neeraj Chopra
- b) Harmanpreet Singh
- c) Lakshya Sen
- d) Manu Bhakar

Correct Answer: d) Manu Bhakar

Solution:

Manu Bhakar made history by winning two medals at the 2020 Tokyo Olympics, a gold and a silver in the Mixed 10m Air Pistol event. This makes her the first Indian athlete from independent India to win two medals in a single Summer Olympics edition.

Quick Tip

Always check the latest records and updates, as new achievements may clarify historical firsts in the sports world.

Q54: Who is credited with being the first oncologist in India to have successfully performed a bone marrow transplant?

- a) Dr. K. K. Agarwal
- b) Dr. Suresh H. Advani
- c) Dr. Mansoor Hasan
- d) Dr. Indira Hinduja

Correct Answer: b) Dr. Suresh H. Advani

Solution:

Dr. Suresh H. Advani is credited with being the first oncologist in India to successfully perform a bone marrow transplant. He is widely regarded as a pioneer in the field of oncology and has made significant contributions to cancer treatment in India. Other names mentioned in the options have notable medical achievements but did not perform the first successful bone marrow transplant.

Quick Tip

Dr. Suresh H. Advani was the first oncologist in India to successfully perform a bone marrow transplant.

Q55: Which of the following is considered to be the closest equivalent of a 'Nobel Prize' in the field of Mathematics?

- a) Hess-Leffler Medal
- b) Gording-Harmander Award
- c) Fields Medal
- d) Shaw-Wolf Prize

Correct Answer: c) Fields Medal

Solution:

The Fields Medal is widely regarded as the "Nobel Prize" of mathematics. It is awarded every four years to up to four mathematicians under the age of 40 in recognition of outstanding achievements in the field of mathematics. The other awards listed are also significant in their respective fields but are not considered as prestigious as the Fields Medal in mathematics.

Quick Tip

The Fields Medal is considered the equivalent of a Nobel Prize for mathematics.

Q56: The 2024 International Booker Prize was awarded to the book 'Kairos' by Jenny Erpenbeck. Which of the following makes this win notable?

- a) First book translated from German to win the prize
- b) First book written by a stateless person to win the prize
- c) First book to win both the Booker Prize and Pulitzer Prize in the same year
- d) First autobiography to win the prize

Correct Answer: a) First book translated from German to win the prize

Solution:

'Kairos' by Jenny Erpenbeck won the 2024 International Booker Prize and is notable for being the first book translated from German to win the prestigious prize. The novel touches on themes of time, history, and relationships, earning high praise for its depth. The other options are incorrect as they do not pertain to the book or its achievements.

Quick Tip

Kairos by Jenny Erpenbeck is the first book translated from German to win the International Booker Prize.

Q57: M.S. Dhoni is considered to be one of the most successful captain and player in the popular Indian Premier League (IPL). Which other franchise in addition to the Chennai Super Kings, has Dhoni played for?

- a) Rising Pune Supergiants
- b) Gujarat Titans
- c) Rajasthan Royals
- d) Sunrisers Hyderabad

Correct Answer: a) Rising Pune Supergiants

Solution:

M.S. Dhoni played for the Rising Pune Supergiants during the 2016 and 2017 IPL seasons. This was because Chennai Super Kings was suspended for two years due to a corruption scandal. Dhoni has never played for the other listed franchises (Gujarat Titans, Rajasthan Royals, and Sunrisers Hyderabad) in the IPL.

Quick Tip

M.S. Dhoni played for Rising Pune Supergiants during the suspension of Chennai Super Kings in 2016 and 2017.

Q58: Which Indian football sporting club won the inaugural ASEAN Football Championship hosted by Indonesia in 2003?

- a) Mohan Bagan AC
- b) Salgaocar FC
- c) NorthEast United FC
- d) East Bengal FC

Correct Answer: d) East Bengal FC

Solution:

East Bengal FC won the inaugural ASEAN Football Championship held in 2003. The tournament, hosted by Indonesia, was a significant achievement for Indian football and marked East Bengal's international success. The other clubs listed did not win the inaugural edition of the ASEAN Football Championship.

Quick Tip

East Bengal FC won the inaugural ASEAN Football Championship in 2003.

Q59: Perseverance Rover, launched by NASA, is famous for its mission to explore the surface of which celestial body, particularly to seek signs of ancient life and collect samples for future return to Earth?

- a) Mercury
- b) Mars
- c) Juno
- d) Titan

Correct Answer: b) Mars

Solution:

The Perseverance Rover, part of NASA's Mars 2020 mission, was sent to Mars with the goal of exploring the surface, seeking signs of ancient life, and collecting soil and rock samples for future return to Earth. The rover landed on Mars in February 2021. The other options (Mercury, Juno, and Titan) are not relevant to this mission. Juno is a

mission to study Jupiter, while Titan is one of Saturn's moons.

Quick Tip

Perseverance Rover is a NASA mission specifically focused on exploring Mars and looking for signs of ancient life.

Q60: The Nobel Peace Prize for 2024 was awarded to:

- a) Organisation for the Prohibition of Chemical Weapons
- b) Amnesty International
- c) Nihon Hidankyo
- d) UN Peacekeeping Force

Correct Answer: a) Organisation for the Prohibition of Chemical Weapons

Solution:

The Nobel Peace Prize for 2024 was awarded to the Organisation for the Prohibition of Chemical Weapons (OPCW) for its continuous efforts to eliminate the use of chemical weapons worldwide. The OPCW plays a crucial role in monitoring the destruction of chemical weapons stockpiles and promoting disarmament. While Amnesty International and Nihon Hidankyo are also well-known organizations, they were not the recipients of this award in 2024.

Quick Tip

The OPCW was awarded the Nobel Peace Prize in 2024 for its efforts in eliminating chemical weapons.

Q61: Which of the following is not a member of the United Nations?

- a) Taiwan
- b) United States of America
- c) Honduras
- d) Brazil

Correct Answer: a) Taiwan

Solution:

Taiwan is not a member of the United Nations due to political reasons. Despite being a self-governing entity, Taiwan is not recognized as a sovereign state by the UN due to China's stance on the issue. The United States, Honduras, and Brazil are all member states of the United Nations.

Quick Tip

Taiwan is not a member of the United Nations due to political and diplomatic challenges.

Q62: The third Japan-India 2+2 Ministerial Meeting was held in New Delhi in 2024. Which is a core focus area for these meetings?

- a) joint space exploration programme
- b) bilateral security and defence cooperation
- c) regional migration framework
- d) joint climate change action plan

Correct Answer: b) bilateral security and defence cooperation

Solution:

The 2+2 Ministerial Meeting between Japan and India focuses primarily on bilateral security and defense cooperation. The meetings involve discussions on enhancing defense ties, regional security, and strategic partnerships. While topics like climate change and space exploration may be discussed in broader diplomatic contexts, the core focus of the 2+2 meetings is on security and defense.

Quick Tip

The Japan-India 2+2 Ministerial Meeting focuses on strengthening bilateral defense and security cooperation.

Q63: The following listed items are joint military exercises conducted by India, with another foreign nation. Match the following:

Item	Foreign Nation
A) Veer Guardian	I) Mongolia
B) Nomadic Elephant	II) United States of America
C) Vajra Prahar	III) Japan
D) Exercise Maitree	IV) Thailand

Select the correct option :

- a) A-I, B-IV, C-II, D-III
- b) A-III, B-I, C-IV, D-II
- c) A-III, B-I, C-II, D-IV
- d) A-IV, B-II, C-I, D-III

Correct Answer: c) A-III, B-I, C-II, D-IV

Solution:

- Veer Guardian is a joint military exercise between India and Japan (A-III).
- Nomadic Elephant is a joint military exercise with Mongolia (B-I).
- Vajra Prahar is conducted with the United States of America (C-II).
- Exercise Maitree is a joint exercise with Thailand (D-IV).

Quick Tip

India conducts several joint military exercises with foreign nations to enhance defense cooperation and interoperability.

Q64: Nupi Lan, also known as the ‘Women War’, was a significant revolt against the British and is often credited as one of the earliest uprisings in India to be led entirely by women. In which present-day state did the uprising take place?

- a) Manipur
- b) Arunachal Pradesh
- c) Chhattisgarh
- d) Tripura

Correct Answer: a) Manipur

Solution:

Nupi Lan, meaning "Women War," was a significant revolt that took place in Manipur in 1904 and 1939. The uprising was led entirely by women against the British colonial authorities, particularly in response to the British-imposed economic policies and the forced conscription of women. It is considered one of the earliest uprisings in India to be led by women. The other states listed (Arunachal Pradesh, Chhattisgarh, and Tripura) were not the site of this historical event.

Quick Tip

Nupi Lan, or 'Women War', took place in Manipur and was led entirely by women against British colonial rule.

Q65: Who is the current Secretary General of the United Nations?

- a) Ban-Ki Moon
- b) Kofi Annan
- c) Ursula von der Leyen
- d) Antonio Guterres

Correct Answer: d) Antonio Guterres

Solution:

Antonio Guterres, a Portuguese diplomat, is the current Secretary General of the United Nations, having assumed office on January 1, 2017. He succeeded Ban Ki-moon, who served from 2007 to 2016. Kofi Annan, another former Secretary General, served from 1997 to 2006. Ursula von der Leyen is the President of the European Commission, not the UN Secretary General.

Quick Tip

Antonio Guterres is the current Secretary General of the UN, succeeding Ban Ki-moon.

Q66: What is the international significance of 21st June?

- a) Human Rights Day
- b) Women's Day
- c) International Day of Yoga
- d) World Day Against Child Labour

Correct Answer: c) International Day of Yoga

Solution:

21st June is celebrated as the International Day of Yoga, as declared by the United Nations General Assembly in 2014. The day is dedicated to raising awareness about the importance of yoga in maintaining physical and mental health. The other options (Human Rights Day, Women's Day, and World Day Against Child Labour) are celebrated on different dates.

Quick Tip

International Day of Yoga is celebrated on 21st June to promote the practice of yoga worldwide.

Q67: According to the Swachh Survekshan 2023 rankings, which of the following cities was ranked as the cleanest in India?

- a) Pune
- b) Indore
- c) Bhopal
- d) Tirupati

Correct Answer: b) Indore

Solution:

Indore was ranked as the cleanest city in India in the Swachh Survekshan 2023 rankings. This city has consistently topped the cleanliness rankings in India due to its comprehensive waste management and sanitation initiatives. The other cities, while clean, were not ranked as the cleanest in 2023.

Quick Tip

Indore has been ranked the cleanest city in India for several consecutive years due to its effective waste management systems.

Q68: The following are various dance forms found in different parts of India. While a certain dance form may be associated with more than one state, select the most appropriate response to the noted options below:

Dance Form	State
A) Bharatanatyam	III) Tamil Nadu
B) Sattriya	I) Assam
C) Kathakali	IV) Kerala
D) Kuchipudi	II) Andhra Pradesh

Select the correct option :

- a) A-III, B-I, C-IV, D-II
- b) A-III, B-IV, C-II, D-I
- c) A-II, B-I, C-IV, D-III
- d) A-IV, B-II, C-I, D-III

Correct Answer: a) A-III, B-I, C-IV, D-II

Solution:

- Bharatanatyam is a classical dance form from Tamil Nadu (A-III).
- Sattriya is a traditional dance form from Assam (B-I).
- Kathakali is a dance-drama form from Kerala (C-IV).
- Kuchipudi is a classical dance from Andhra Pradesh (D-II).

Quick Tip

Each classical dance form is deeply rooted in the culture of its respective state in India.

Q69: Vinesh Phogat was disqualified from the wrestling competition at the 2024 Paris Olympics after exceeding the weight limit by 100 grams during the weigh-in for her 50 kg final. Her disqualification was upheld on appeal. To which international body did Vinesh Phogat and the Indian Olympic Association appeal?

- a) Court of Arbitration for Sports
- b) International Sports Arbitration Tribunal
- c) International Athletic Arbitration Authority
- d) Tribunal Internacional de Arbitraje

Correct Answer: a) Court of Arbitration for Sports

Solution:

Vinesh Phogat and the Indian Olympic Association appealed her disqualification to the Court of Arbitration for Sports (CAS), which is the highest legal authority in sports-related disputes. CAS handles disputes related to athletes, coaches, and other entities in international sports.

Quick Tip

The Court of Arbitration for Sports is the primary legal body for resolving sports-related disputes.

Q70: In September, 2024, a new scheme, Bio-RIDE, was approved in the area of biotechnology. Identify the components of the scheme.

- I. Biotechnology Research and Development
- II. Industrial & Entrepreneurship Development
- III. Biomanufacturing and Biofoundry
- IV. Biotechnology parks and International Collaborations

Select the correct option :

- a) I, II, III
- b) I, II, IV
- c) I, III, IV
- d) II, III, IV

Correct Answer: a) I, II, III

Solution:

The Bio-RIDE scheme focuses on the following key components:

- Biotechnology Research and Development (I)
- Industrial & Entrepreneurship Development (II)
- Biomanufacturing and Biofoundry (III)

These components aim to boost India's biotechnology sector. However, Biotechnology parks and International Collaborations (IV) were not included as core elements of the Bio-RIDE scheme.

Quick Tip

Bio-RIDE aims to boost research and entrepreneurship in the biotechnology sector in India.

Q71: The quality of drinking water is regularly measured in terms of TDS. Higher the TDS poorer the quality of drinking water. What does TDS stand for?

- a) Total Dilution Solubility
- b) Total Dissolved Solids
- c) Total De-Salination
- d) Total Density Solution

Correct Answer: b) Total Dissolved Solids

Solution:

TDS stands for Total Dissolved Solids, which refers to the total concentration of dissolved substances in water, including minerals, salts, and metals. A higher TDS value indicates poorer quality of water, as it may contain more impurities. The other options do not represent the correct definition of TDS.

Quick Tip

TDS refers to the total concentration of dissolved solids in water, affecting its quality.

Q72: In 2004, the Government of India decided to create a new category of languages known as ‘Classical Languages’. What are the latest criteria, announced in 2024, for inclusion of languages within this category?

- I. High antiquity of its early texts/recorded history over a period of 1500-2000 years.
- II. A body of ancient literature/texts, which is considered a heritage by generations of speakers.
- III. Knowledge texts, especially prose texts in addition to poetry, epigraphical and inscriptional evidence.
- IV. The classical languages and literature could be distinct from its current form or could be discontinuous with later forms of its offshoots.
- V. The literary tradition be original and not borrowed from another speech community.

Select the correct option:

- a) Only I, II, III & V
- b) Only II, III & IV
- c) Only I, II & III
- d) Only I, II, III & IV

Correct Answer: d) Only I, II, III & IV

Solution:

The Government of India’s criteria for classifying languages as ‘Classical Languages’ include the following:

- The language must have a recorded history spanning 1500-2000 years (I).
- It should have a significant body of ancient literature or texts considered as a heritage by its speakers (II).
- The language should include knowledge texts in prose, along with epigraphical and inscriptional evidence (III).
- The literary tradition should be distinct and not borrowed from another speech community (V).
- It may also be distinct from later forms or offshoots (IV).

Quick Tip

A language must meet all the outlined criteria, including high antiquity and unique literary traditions, to be classified as a ‘Classical Language.’

Q73: The movie ‘The Man who knew Infinity’ depicts the life story of

- a) Apurba Ramchandran
- b) Ramanbhai Patel
- c) Srinivasa Ramanujan
- d) Venki Ramakrishna

Correct Answer: c) Srinivasa Ramanujan

Solution:

‘The Man who knew Infinity’ is a biographical film about the life of Indian mathematician Srinivasa Ramanujan. The movie portrays his life, struggles, and mathematical genius, including his collaboration with the British mathematician G.H. Hardy. The other names listed are unrelated to the subject of the film.

Quick Tip

Srinivasa Ramanujan was an extraordinary Indian mathematician whose life and work inspired the film "The Man who Knew Infinity."

Q74: Who was known as the ‘Bard of Brahmaputra’?

- a) Tarali Sarma
- b) Bhupen Hazarika
- c) Bishakh Jyoti
- d) Niranjana Rout

Correct Answer: b) Bhupen Hazarika

Solution:

Bhupen Hazarika, one of Assam’s most iconic cultural figures, was affectionately known as the ‘Bard of Brahmaputra.’ His songs and contributions to Assamese music and culture earned him this title. He was a poet, singer, and filmmaker, whose music resonated deeply with the people of Assam and beyond.

Quick Tip

Bhupen Hazarika was a legendary figure in Assamese music and is known as the ‘Bard of Brahmaputra.’

Q75: In 2024, the Government of India introduced the Rashtriya Vigyan Puraskar, recognizing key contributions in the field of science and technology in India. In the first edition, awards were presented in the following four categories:

- I. Vigyan Ratna
- II. Vigyan Shri
- III. Vigyan Yuva

IV. Vigyan Team

V. Vigyan Aavishkar

Select the correct option:

- a) Only I, II, III, IV
- b) Only II, III, IV, V
- c) Only I, III, IV, V
- d) Only I, II, IV, V

Correct Answer: a) Only I, II, III, IV

Solution:

The Rashtriya Vigyan Puraskar recognizes contributions in science and technology in India. The awards in the first edition were presented in the following four categories: - Vigyan Ratna (I) – For outstanding contributions in science. - Vigyan Shri (II) – For notable contributions to scientific research. - Vigyan Yuva (III) – For young scientists making significant contributions. - Vigyan Team (IV) – For teams excelling in scientific advancements.

Vigyan Aavishkar (V) was not included in the first edition of the awards.

Quick Tip

The Rashtriya Vigyan Puraskar recognizes excellence in science and technology across various categories, promoting scientific innovation.

Q76: As part of its NTMHP initiative, the Government of India recently introduced the TELE-MANAS, a 24/7 toll-free helpline (14416). What does TELE-MANAS stand for?

- a) Tele Mental Health Assistance and Networking Across States
- b) Tele Medicine Assistance and National Support
- c) Tele Mental Assistance and National Aid Service
- d) Tele Medical Aid and Networking Across States

Correct Answer: a) Tele Mental Health Assistance and Networking Across States

Solution:

TELE-MANAS is a 24/7 toll-free helpline initiative launched by the Government of India under the National Tele Mental Health Programme (NTMHP). The aim is to provide mental health support across India, with assistance available through a network of mental health professionals. The acronym TELE-MANAS stands for Tele Mental Health Assistance and Networking Across States, which describes the program's goal of reaching people across the country for mental health services.

Quick Tip

TELE-MANAS is a mental health helpline initiative to provide support across India, available 24/7.

Q77: Festivals in India are a vibrant reflection of its diverse culture, heritage, and traditions. Match the following festivals with the state with which it is most frequently associated.

S.no Festival S.no State

I Kadalekayi Parishe A Gujarat

II Bohag Bihu B Orissa

III Uttarayan C Assam

IV Nuakhai D Karnataka

Select the correct option:

- a) I-C, II-D, III-A, IV-B
- b) I-D, II-C, III-A, IV-B
- c) I-B, II-C, III-D, IV-A
- d) I-A, II-C, III-B, IV-D

Correct Answer: b) I-D, II-C, III-A, IV-B

Solution:

- Kadalekayi Parishe is celebrated in Karnataka (D), particularly in Bangalore.
- Bohag Bihu is widely celebrated in Assam (C) and marks the Assamese New Year.
- Uttarayan is predominantly celebrated in Gujarat (A), marking the day when the sun starts its northward journey.
- Nuakhai is a harvest festival celebrated in Orissa (B).

Quick Tip

Different Indian festivals are celebrated with distinct traditions in various states, reflecting the cultural diversity of the country.

Q78: In the ongoing Israeli-Palestinian conflict, frequent references have been made to the 'Iron Dome'. What does it refer to?

- a) Ancient architectural buildings, particularly religious buildings featuring a dome
- b) An advanced cyber shield ensuring multilayer protection against invasive cyberattacks
- c) A continuous remote sensing surveillance technology to detect deep underground tunnels
- d) Multipurpose missile defense system designed to protect against a wide range of indirect and aerial threats

Correct Answer: d) Multipurpose missile defense system designed to protect against a wide range of indirect and aerial threats

Solution:

The Iron Dome is an advanced missile defense system developed by Israel to intercept and destroy short-range rockets, artillery shells, and mortars fired at Israel. It is designed to protect civilian areas from aerial threats, including missiles and rockets. It is not related to architecture, cyber security, or remote sensing technology.

Quick Tip

The Iron Dome is a key defense system designed to protect civilians from aerial threats, especially rocket fire.

Q79: The Indian Air Force recently inaugurated a new training establishment, the Weapon Systems School (WSS), with the aim of recalibrating and transforming the Indian Air Force as a future-oriented force. In which city was the WSS located?

- a) Gorakhpur, UP
- b) Begumpet, Hyderabad
- c) Tezpur, Assam
- d) Jodhpur, Rajasthan

Correct Answer: b) Begumpet, Hyderabad

Solution:

The Indian Air Force inaugurated the Weapon Systems School (WSS) in Begumpet, Hyderabad. The purpose of this school is to train personnel in advanced weapon systems to enhance the operational capabilities of the Air Force.

Quick Tip

Jodhpur is the location of the Weapon Systems School, designed to train Indian Air Force personnel in modern weaponry.

Q80: Which of the following statements best describes the nature of the National Automated Clearing House (NACH) implemented by the National Payment Corporation of India (NPCI)?

- a) It is a web-based solution to facilitate interbank, high volume, electronic transactions which are repetitive and periodic in nature
- b) It is utilized to modify in real time individual transactions between bank accounts
- c) It facilitates direct government disbursements to beneficiaries under various schemes
- d) It is an RBI mobile app to facilitate international wire transfers and foreign remittances

Correct Answer: a) It is a web-based solution to facilitate interbank, high volume, electronic transactions which are repetitive and periodic in nature

Solution:

The National Automated Clearing House (NACH) is a web-based solution designed to facilitate high-volume, repetitive electronic transactions, particularly for payments like

salaries, pensions, and utility bills. It allows for seamless, periodic payments between banks and is widely used for facilitating government schemes, but its main function is not limited to government disbursements.

Quick Tip

NACH is designed for high-volume electronic transactions, enabling automated payments across multiple sectors.

Section C

Logical Reasoning

Q81: Some Hyenas are Lions. All Lions are Cats. Some Cats are Wolves. Examine the following statements:

- I. Some Cats are Lions.
- II. Some Wolves are Lions.
- III. Some Cats are Hyenas.

Select the correct option:

- a) Both I & II follows
- b) Both II & III follows
- c) Both I & III follows
- d) Only III follows

Correct Answer: c) Both I & III follows

Solution:

- I. Some Cats are Lions: Since all Lions are Cats, it logically follows that some Cats must be Lions. - II. Some Wolves are Lions: There is no direct link between Wolves and Lions in the given statements, so this doesn't follow. - III. Some Cats are Hyenas: The statement "Some Hyenas are Lions" and "All Lions are Cats" means some Cats could also be Hyenas. Hence, this statement follows.

Quick Tip

Remember: Statements that link categories in syllogistic logic should be carefully analyzed for direct relationships.

Q82: All Squirrels are Herbivores. Some Herbivores are Elephants. All Elephants are Mammals. Some Mammals are Carnivores. Examine the following statements:

- I. Some Mammals are Herbivores.
- II. All Elephants are Squirrels.

III. Some Carnivores are Herbivores.

Select the correct option:

- a) Only I follows
- b) Both II & III follows
- c) Both I & III follows
- d) Only II follows

Correct Answer: a) Both II & III follows

Solution:

- II. All Elephants are Squirrels: This is incorrect as there is no information to suggest that Elephants are Squirrels. - III. Some Carnivores are Herbivores: Since some Mammals are Carnivores and some Mammals are Herbivores, it's possible that some Carnivores are Herbivores.

Quick Tip

Check the logical relationships and ensure statements fit with the given premises before concluding.

Q83: All Engineers are Mathematicians. Some Mathematicians are Authors. No Author is a Scientist. Some Engineers are Scientists. Examine the following statements:

- I. No Author is an Engineer.
- II. Some Scientists are Engineers.
- III. Some Mathematicians are not Scientists.

Select the correct option:

- a) Only II follows
- b) Both I & III follows
- c) Both II & III follows
- d) Only I follows

Correct Answer: c) Both II & III follows

Solution:

- I. No Author is an Engineer: Since some Mathematicians are Authors, and all Engineers are Mathematicians, it does not necessarily follow that no Author can be an Engineer.
- II. Some Scientists are Engineers: This is true, as "Some Engineers are Scientists" follows from the given statements.
- III. Some Mathematicians are not Scientists: This follows because there are Mathematicians (Engineers) who are not necessarily Scientists.

Quick Tip

Be cautious about terms like "some" and "all" in syllogisms, as they significantly affect the conclusions.

Q84: All gadgets are machines. Some gadgets are tools. All machines are useful. Examine the following statements:

I. Some tools are useful.

II. All that is useful are machines.

III. All tools are gadgets.

Select the correct option:

a) Only I follows

b) Only II follows

c) Both I & III follows

d) Both II & III follows

Correct Answer: a) Only I follows

Solution:

- I. Some tools are useful: Since all gadgets are machines and all machines are useful, it follows that some tools (which are gadgets) are useful.

- II. All that is useful are machines: This is incorrect. There are useful things that may not be machines.

- III. All tools are gadgets: This is not necessarily true. Not all tools are gadgets, as some tools may not be categorized as gadgets.

Quick Tip

Ensure you are distinguishing between categories such as "some", "all", and "none" in logical reasoning questions.

Q85: All International Court of Justice (ICJ) judgments are binding on parties involved in the case. Some ICJ judgments have persuasive value in domestic courts. Judgments of domestic courts can be referenced by the ICJ, but they are not binding. Examine the following statements:

I. Some ICJ judgments are binding on domestic courts.

II. Some domestic court judgments are binding on the ICJ.

III. ICJ judgments can be used to strengthen arguments in domestic courts.

Select the correct option:

a) Only I follows

b) Both I & II follows

c) Both I & III follows

d) Only III follows

Correct Answer: d) Only III follows

Solution:

- I. Some ICJ judgments are binding on domestic courts: ICJ judgments are binding only on the parties involved in the case, not on domestic courts. Hence, this does not follow.

- II. Some domestic court judgments are binding on the ICJ: Domestic court judgments are not binding on the ICJ. Therefore, this statement is false.

- III. ICJ judgments can be used to strengthen arguments in domestic courts: ICJ judgments can indeed be used as persuasive references in domestic courts, so this statement is true.

Quick Tip

In legal reasoning, remember that binding and persuasive influence differ. Binding means mandatory, while persuasive means it can influence but is not mandatory.

Q86: All drivers are Tall. Some Tall persons violate traffic lights. All who violate traffic lights are fined. B is Tall. Examine the following statements:

- I. B is a driver.
- II. B may violate a traffic light.
- III. B will definitely violate traffic light.
- IV. If B is a driver, he will get fined.
- V. B will definitely get fined.

Select the correct option:

- a) Only I, III and V
- b) Only II
- c) Only I and III
- d) Only I and V

Correct Answer: b) Only II

Solution:

- I. B is a driver: The statement only says B is tall, not necessarily a driver. However, since all drivers are tall, B could be a driver, so this is possible.
- II. B may violate a traffic light: The statement "Some Tall persons violate traffic lights" indicates that B may or may not violate traffic lights.
- III. B will definitely violate traffic light: There is no certainty that B will violate a traffic light, as only some tall persons do so.
- IV. If B is a driver, he will get fined: Since all drivers are tall, and all who violate traffic lights are fined, if B is a driver, B may violate traffic lights and thus will be fined.
- V. B will definitely get fined: This is not necessarily true because B may not violate a traffic light. Hence, B may not get fined.

Quick Tip

Remember that "some" in logical reasoning means possibility, not certainty. Always consider the possibility of events when making conclusions.

Q87: A consumer advocacy group published a report accusing Alpha Electronics Company of producing faulty products, misleading advertising, and failing to provide adequate customer service. The report presented various customer testimonials and product reviews as evidence of these issues. Which of the following assumptions, if true, most strengthens the advocacy group's claims?

- a) Alpha's competitors made larger profits than Alpha in the immediately previous year
- b) Alpha had recently changed its advertising strategy to highlight customer satisfaction

more prominently

- c) Alpha was recently fined by a regulatory body for not complying with consumer protection standards
- d) Alpha recently appointed a new CEO

Correct Answer: c) Alpha was recently fined by a regulatory body for not complying with consumer protection standards

Solution:

- a) Alpha's competitors made larger profits than Alpha in the immediately previous year: This is unrelated to the consumer claims and does not directly strengthen the case. - b) Alpha had recently changed its advertising strategy to highlight customer satisfaction more prominently: Changing the advertising strategy may indicate an effort to improve, but it does not necessarily prove the claims of faulty products or bad service. - c) Alpha was recently fined by a regulatory body for not complying with consumer protection standards: This strengthens the claims of faulty products and misleading advertising, as it shows a history of non-compliance with consumer protection standards. - d) Alpha recently appointed a new CEO: A new CEO does not directly address the consumer complaints, so it does not strengthen the claims.

Quick Tip

Look for evidence that directly links the claims to the company's actions, such as fines or violations.

Q88: In scientific inquiry, the hypothesis is a testable statement that predicts the relationship between variables. According to the scientific method, the validity of a hypothesis is determined by its ability to withstand empirical testing and produce consistent results. Critics of this approach argue that relying solely on empirical data can lead to the neglect of theoretical frameworks that provide context for understanding phenomena. Which of the following assumption would allow the above statements to be properly made?

- a) Empirical data alone can be sufficient to explain complex scientific phenomena
- b) Theoretical frameworks often provide critical insights that cannot be derived from empirical testing alone
- c) Many scientific theories are based on assumptions that cannot be empirically tested
- d) Both b) and c) above

Correct Answer: d) Both b) and c) above

Solution:

- a) Empirical data alone can be sufficient to explain complex scientific phenomena: This contradicts the critics' argument, which emphasizes the importance of theoretical frameworks.

- b) Theoretical frameworks often provide critical insights that cannot be derived from empirical testing alone: This strengthens the critics' argument, as it emphasizes the value of theoretical context.

- c) Many scientific theories are based on assumptions that cannot be empirically tested:

This also strengthens the critics' argument, as some scientific concepts cannot be tested solely through empirical data.

- d) Both b) and c) above: Both statements support the critics' position that empirical testing alone may not be sufficient.

Quick Tip

Critics of empirical-only approaches often emphasize the importance of theory and assumptions that cannot always be tested directly.

Q89: Recent studies indicate that the implementation of remote work policies has led to an increase in employee productivity in many companies. Factors contributing to this trend include reduced commuting time, greater flexibility in work hours, and the ability for employees to create personalized work environments. However, the studies also note that employees who work remotely may experience feelings of isolation and disconnection from their colleagues, which could impact team cohesion and communication. Companies that have adopted remote work policies are now considering whether to continue, modify, or return to traditional in-office work arrangements. Which of the following conclusion can be most accurately drawn from the above?

- a) Remote work policies are universally beneficial for all companies and employees
- b) The increase in productivity from remote work is solely due to employees' ability to create personalized work environments
- c) Companies that implement remote work policies may need to address potential feelings of isolation among employees to maintain team cohesion
- d) Traditional in-office work arrangements are more effective in promoting team communication and collaboration than remote work

Correct Answer: c) Companies that implement remote work policies may need to address potential feelings of isolation among employees to maintain team cohesion

Solution:

- a) Remote work policies are universally beneficial for all companies and employees: The passage does not suggest that remote work is beneficial for all companies or employees universally.
- b) The increase in productivity from remote work is solely due to employees' ability to create personalized work environments: The passage mentions multiple factors contributing to productivity, not just personalized environments.
- c) Companies that implement remote work policies may need to address potential feelings of isolation among employees to maintain team cohesion: This is a reasonable conclusion based on the information provided about isolation impacting team cohesion.
- d) Traditional in-office work arrangements are more effective in promoting team communication and collaboration than remote work: The passage does not support this conclusion directly.

Quick Tip

Look for conclusions that are directly supported by the data provided, avoiding over-generalizations or unsupported claims.

Q90: In education policy, the concept of inclusive education advocates for integrating students with disabilities into mainstream classrooms to promote diversity and equal opportunities. However, critics claim that focusing too much on inclusion can strain resources and may lead to a decline in educational quality for students both with and without disabilities. Which of the following arguments would most strengthen the critics' position?

- a) Many parents prefer traditional classrooms for their children over inclusive settings
- b) Schools often lack the resources needed to effectively implement inclusive education practices
- c) The academic performance of students without disabilities is negatively impacted by inclusive classrooms
- d) The academic performance of students with disabilities is negatively impacted by inclusive classrooms

Correct Answer: b) Schools often lack the resources needed to effectively implement inclusive education practices

Solution:

- a) Many parents prefer traditional classrooms for their children over inclusive settings: This does not directly strengthen the critics' claim about resources and educational quality. - b) Schools often lack the resources needed to effectively implement inclusive education practices: This directly strengthens the critics' argument, as it highlights resource strain. - c) The academic performance of students without disabilities is negatively impacted by inclusive classrooms: This may support the critics' position, but it does not directly address the resource issue. - d) The academic performance of students with disabilities is negatively impacted by inclusive classrooms: This would only support the critics' position if linked to resource strain, which is not the focus here.

Quick Tip

When evaluating arguments, consider how the available resources or lack thereof could influence the effectiveness of policies like inclusive education.

Q91: In business strategy, the concept of diversification involves expanding a company's operations into new markets or product lines to reduce risk and enhance growth potential. Though, diversification can lead to increased revenue streams and a more resilient business model, critics contend that diversification can dilute a company's core competencies and result in inefficiencies, ultimately harming overall performance. Which of the following assumption would allow the above statements to be properly drawn?

- a) Companies often face significant challenges when trying to manage multiple product lines effectively
- b) Diversification strategies usually require little investment and resources
- c) A strong focus on core competencies is essential for maintaining optimal output
- d) Both a) and c) above

Correct Answer: d) Both a) and c) above

Solution:

- a) Companies often face significant challenges when trying to manage multiple product lines effectively: This assumption supports the critics' argument that diversification may lead to inefficiencies.
- b) Diversification strategies usually require little investment and resources: This assumption contradicts the argument, as diversification generally requires significant investment and resources.
- c) A strong focus on core competencies is essential for maintaining optimal output: This assumption supports the argument that diversification could dilute core competencies and harm performance.
- d) Both a) and c) above: Both assumptions align with the critics' position on diversification, making this the correct answer.

Quick Tip

When evaluating business strategies like diversification, consider both the challenges of managing multiple operations and the importance of focusing on core competencies.

Q92: A recent survey of smartphone users revealed that 70% of respondents believe that data privacy is important. However, only 30% actively use privacy settings on their devices. The survey indicates that a major reason for this is that many users find privacy settings confusing and difficult to navigate. Which of the following assumption would allow the above statements to be properly drawn?

- a) The majority of smartphone users are not concerned about data privacy at all
- b) Users who care about data privacy often do not have the technical skills to manage privacy settings
- c) Most smartphone manufacturers do not provide sufficient information on privacy settings
- d) Many users believe that their data is safe without needing to adjust privacy settings

Correct Answer: b) Users who care about data privacy often do not have the technical skills to manage privacy settings

Solution:

- a) The majority of smartphone users are not concerned about data privacy at all: This assumption contradicts the data provided, where 70% of users believe privacy is important.
- b) Users who care about data privacy often do not have the technical skills to manage

privacy settings: This assumption supports the argument that privacy settings are confusing and difficult to navigate for those who care about privacy.

- c) Most smartphone manufacturers do not provide sufficient information on privacy settings: While this could be a valid assumption, it is not directly supported by the given information.

- d) Many users believe that their data is safe without needing to adjust privacy settings: This assumption is not supported by the passage, as the issue is not about belief but rather difficulty in navigation.

Quick Tip

When evaluating survey-based conclusions, look for assumptions that directly explain the behavior or attitudes presented in the data.

Q93: Statement: Urban gardening has gained traction in recent years as a way for city dwellers to grow their own food and improve their mental well-being. This movement was partly fuelled by growing concerns about food deserts, environmental sustainability, and the desire for a connection to nature. However, critics argue that urban gardening often does not address the systemic issues of access to fresh food and can sometimes lead to gentrification, where original community members are displaced as property values rise. Despite these criticisms, many individuals find personal fulfilment and community among fellow urban gardeners.

Conclusion:

I. Urban gardening can heighten food insecurity in cities.

II. Many individuals benefit emotionally and socially from participating in urban gardening.

III. Urban gardening can unintentionally contribute to the gentrification of neighbourhoods, harming long-term residents.

Based on the above statement, which conclusion necessarily follows?

a) Only I follows

b) Only II follows

c) Only III follows

d) Both II and III follows

Correct Answer: d) Both II and III follows

Solution:

- I. Urban gardening can heighten food insecurity in cities: The passage mentions that urban gardening may not address systemic issues like access to fresh food, but it does not directly state that it heightens food insecurity.

- II. Many individuals benefit emotionally and socially from participating in urban gardening: The passage clearly states that many individuals find personal fulfilment and community among fellow gardeners, making this conclusion true.

- III. Urban gardening can unintentionally contribute to the gentrification of neighbourhoods, harming long-term residents: The passage directly mentions that urban gardening can lead to gentrification, making this conclusion true.

Quick Tip

When interpreting conclusions based on a given statement, look for direct references in the passage that support the conclusion, especially in terms of unintended consequences or benefits.

Q94: Statement: A fundamental principle of artificial intelligence (AI) development is to ensure that AI systems are designed with fairness and inclusivity in mind. Developers are expected to implement algorithms that do not discriminate against any demographic group, as bias in AI can lead to significant societal harm. Furthermore, transparency in how AI models make decisions is essential to building trust among users and stakeholders.

Conclusion:

- I. It is inappropriate to criticize AI developers for biased outcomes if they have made efforts to promote fairness and transparency in their models.
 - II. AI developers must prioritize eliminating biases in their algorithms as a key objective.
- Based on the above statement, which conclusion necessarily follows?

- a) Only I follows
- b) Only II follows
- c) Both I and II follows
- d) Neither I nor II follows

Correct Answer: b) Only II follows

Solution:

- I. It is inappropriate to criticize AI developers for biased outcomes if they have made efforts to promote fairness and transparency in their models: The statement emphasizes the importance of fairness and transparency, but does not absolve developers of responsibility if bias occurs.
- II. AI developers must prioritize eliminating biases in their algorithms as a key objective: This conclusion directly aligns with the fundamental principle mentioned in the statement that AI systems should be designed without bias, making this conclusion valid.

Quick Tip

When evaluating conclusions about statements on ethics or technology, focus on the primary responsibilities or objectives outlined in the statement.

Q95: Statement: The discovery of electricity centuries ago led to profound changes in communication, transportation, and industry, significantly altering daily life and economic structures. It is also important to note that the rapid industrialization that followed was accompanied by notable environmental degradation, giving rise to early conservation movements that sought to protect natural resources. Some modern political movements propagate a narrative that portrays technological progress as inherently beneficial, often

overlooking the environmental costs associated with it.

Conclusion:

I. Many political movements today ignore the environmental impacts of technological advancements.

II. It is not possible to have industrial progress without environmental degradation.

III. The discovery of electricity has had both positive and negative effects on society.

Based on the above statement, which conclusion necessarily follows?

a) Only I follows

b) Only II follows

c) Only III follows

d) Both I and III follows

Correct Answer: d) Both I and III follows

Solution:

- I. Many political movements today ignore the environmental impacts of technological advancements: The statement mentions that some political movements focus on the benefits of technological progress while overlooking environmental costs, which supports this conclusion.

- II. It is not possible to have industrial progress without environmental degradation: The statement does not make this claim. It notes the environmental costs of industrialization, but does not assert that progress is inherently linked to degradation.

- III. The discovery of electricity has had both positive and negative effects on society: The statement clearly describes both the positive (advances in communication, transportation, and industry) and negative (environmental degradation) effects, making this conclusion valid.

Quick Tip

When drawing conclusions about historical or technological impacts, consider both the benefits and the unintended negative consequences that may be highlighted in the statement.

Q96: Statement: The invention of antibiotics in the early 20th century revolutionised healthcare by drastically reducing mortality rates from infectious diseases and enabling more complex surgeries. However, the overuse of antibiotics in recent decades has contributed to the rise of drug-resistant bacteria, posing new health risks. Simultaneously, public health policies have had to balance the benefits of antibiotic use with the dangers of resistance. Some modern pharmaceutical practices focus primarily on maximizing profits, often sidelining the long-term risks of resistance.

Conclusion:

I. Profit-driven motives always undermine public health priorities.

II. Overuse of antibiotics has resulted in significant health challenges.

III. Advances in healthcare can introduce unintended risks over time.

Based on the above statement, which conclusion necessarily follows?

a) Only I follows

- b) Only II follows
- c) Both I and II follows
- d) Both II and III follows

Correct Answer: d) Both II and III follows

Solution:

- I. Profit-driven motives always undermine public health priorities: The statement mentions that profit-driven motives sometimes sideline health risks, but it does not assert that they "always" undermine priorities.
- II. Overuse of antibiotics has resulted in significant health challenges: This conclusion is directly supported by the statement, which notes the rise of drug-resistant bacteria due to antibiotic overuse.
- III. Advances in healthcare can introduce unintended risks over time: The statement mentions that despite the benefits of antibiotics, overuse has led to new health risks (drug resistance), which shows that advances in healthcare can have unintended consequences.

Quick Tip

In evaluating statements about the consequences of medical or technological advances, consider both the immediate benefits and potential long-term risks that may emerge over time.

Q97: Statement: The widespread adoption of social media services in the 21st century has transformed how people communicate, enabling instant global connections. However, this shift has also contributed to the spread of misinformation, impacting public trust and social cohesion. In response, some governments have introduced stricter regulations, but these efforts raise concerns about potential censorship and freedom of expression. Some activists argue that controlling misinformation through regulation is necessary, even at the expense of individual freedoms.

Conclusion:

- I. The rise of social media services has both benefits and drawbacks for society.
- II. Governments should prioritize freedom of expression over controlling misinformation.
- III. Efforts to regulate misinformation come with complex trade-offs.

Based on the above statement, which conclusion necessarily follows?

- a) Only I follows
- b) Only III follows
- c) Both I and III follows
- d) Both II and III follows

Correct Answer: c) Both I and III follows

Solution:

- I. The rise of social media services has both benefits and drawbacks for society: The statement clearly mentions that social media has enabled global connections (a benefit) but also contributed to misinformation (a drawback), making this conclusion valid.
- II. Governments should prioritize freedom of expression over controlling misinformation:

The statement does not take a definitive stance on whether freedom of expression should be prioritized, only that regulation may limit it, so this conclusion doesn't necessarily follow.

- III. Efforts to regulate misinformation come with complex trade-offs: The statement discusses both the benefits and concerns surrounding regulation, suggesting a complex trade-off between censorship and freedom of expression, making this conclusion valid.

Quick Tip

When evaluating conclusions on complex issues like freedom of expression or regulation, always consider the various perspectives presented in the statement.

Q98: Statement: Sports competitions foster teamwork and discipline, providing athletes with opportunities to develop skills and achieve personal goals. However, the rampant commercialisation of sports has shifted the focus toward profit, sometimes leading to unethical practices such as match-fixing and doping. While some argue that strict regulations are needed to preserve the integrity of sports, others believe that over-regulation may hinder athletic performance and creativity. Striking the right balance between commercial interests and ethical standards remains a challenge.

Conclusion:

I. The commercialisation of sports has led to unethical practices.

II. Stricter regulations are always beneficial for sports integrity.

III. There is a need for balance between commercial interests and ethical practices in sports.

Based on the above statement, which conclusion necessarily follows?

a) Only I follows

b) Both I and III follows

c) Only III follows

d) Both II and III follows

Correct Answer: c) Only III follows

Solution:

- I. The commercialisation of sports has led to unethical practices: The statement acknowledges that the commercialization of sports has resulted in unethical practices like match-fixing and doping, making this conclusion valid.

- II. Stricter regulations are always beneficial for sports integrity: The statement does not assert that stricter regulations are always beneficial, as it also acknowledges the potential hindrance of athletic performance and creativity, so this conclusion does not necessarily follow.

- III. There is a need for balance between commercial interests and ethical practices in sports: The statement clearly mentions the challenge of striking the right balance between commercial interests and ethical standards, making this conclusion valid.

here only III statement is giving the correct conclusion

Quick Tip

In evaluating conclusions related to societal issues, look for statements in the prompt that discuss the pros and cons of different approaches.

Q99: Statement: Culinary arts have evolved significantly over the years, with chefs increasingly focusing on sustainable and locally sourced ingredients. This shift has allowed for a resurgence of interest in traditional cooking techniques alongside modern innovations. However, some culinary purists argue that these trends threaten the authenticity of classic recipes, while others believe that the focus on sustainability enhances the overall dining experience. The debate about preserving culinary heritage versus embracing new practices continues among food enthusiasts.

Conclusion:

- I. The emphasis on sustainability has both benefits and challenges in the culinary world.
- II. Traditional recipes will eventually become obsolete due to modern trends.
- III. The culinary arts are enriched by the combination of tradition and innovation.

Based on the above statement, which conclusion necessarily follows?

- a) Only I follows
- b) Only III follows
- c) Both II and III follows
- d) Both I and III follows

Correct Answer: d) Both I and III follows

Solution:

- I. The emphasis on sustainability has both benefits and challenges in the culinary world: The statement highlights that the shift toward sustainability brings both positive outcomes (e.g., focus on local ingredients) and challenges (e.g., debate about authenticity), making this conclusion valid.
- II. Traditional recipes will eventually become obsolete due to modern trends: The statement does not claim that traditional recipes will become obsolete, but rather suggests a debate between preservation and innovation, so this conclusion does not necessarily follow.
- III. The culinary arts are enriched by the combination of tradition and innovation: The statement emphasizes the resurgence of interest in traditional techniques alongside modern innovations, which enriches the culinary arts, making this conclusion valid.

Quick Tip

When analyzing complex statements, look for evidence in the text that suggests both advantages and drawbacks to a particular practice before selecting your conclusions.

Q100: Statement: The rise of independent bookstores in recent years has

sparked a renewed interest in reading and community engagement, offering curated selections that reflect local tastes and values. These bookstores often host events, such as author readings and book clubs, creating spaces for meaningful conversations and connections among readers. However, some critics argue that the increasing popularity of online retailers poses a significant threat to the survival of these independent stores, potentially leading to a homogenisation of literary culture. Others believe that the unique experiences and personal touch offered by independent bookstores can sustain their relevance in a digital age.

Conclusion:

- I. Independent bookstores play a crucial role in fostering community and promoting local culture.
 - II. The unique experiences provided by independent bookstores can help them thrive despite digital competition.
 - III. Online retailers will inevitably lead to the decline of independent bookstores.
- Based on the above statement, which conclusion necessarily follows?

- a) Only I follows
- b) Only III follows
- c) Both I and II follows
- d) Both II and III follows

Correct Answer: c) Both I and II follows

Solution:

- I. Independent bookstores play a crucial role in fostering community and promoting local culture: The statement highlights how independent bookstores create spaces for community engagement and reflect local tastes, making this conclusion valid.
- II. The unique experiences provided by independent bookstores can help them thrive despite digital competition: The statement mentions that the personal touch and unique experiences of independent bookstores may help them remain relevant in a digital age, making this conclusion valid.
- III. Online retailers will inevitably lead to the decline of independent bookstores: The statement does not claim that the rise of online retailers will inevitably cause the decline of independent bookstores, so this conclusion does not necessarily follow.

Quick Tip

When evaluating conclusions about future trends, look for explicit indications in the statement that point toward a definite outcome.

Q101: Statement: The rise of global tourism has significantly impacted local economies by providing job opportunities and boosting income for many communities. However, it has also led to challenges such as environmental degradation and cultural dilution, as traditional practices and lifestyles are altered to cater to tourists. As a result, many experts advocate for sustainable tourism practices that balance economic benefits with the preservation of local culture and the environment.

Conclusion:

I. All communities benefit equally from the economic opportunities presented by global tourism.

II. Sustainable tourism practices are essential to minimize the negative impacts of tourism on local cultures and environments.

III. The rise of tourism has no significant negative effects on local communities.

Based on the above statement, which conclusion necessarily follows?

- a) Only I follows
- b) Only II follows
- c) Only III follows
- d) Both I and II follows

Correct Answer: b) Only II follows

Solution:

- I. All communities benefit equally from the economic opportunities presented by global tourism: The statement does not suggest that all communities benefit equally, only that tourism provides economic benefits, so this conclusion does not necessarily follow.
- II. Sustainable tourism practices are essential to minimize the negative impacts of tourism on local cultures and environments: The statement directly mentions the need for sustainable tourism to balance economic benefits with environmental and cultural preservation, making this conclusion valid.
- III. The rise of tourism has no significant negative effects on local communities: The statement acknowledges the challenges caused by tourism, including environmental degradation and cultural dilution, so this conclusion does not necessarily follow.

Quick Tip

When analyzing cause-and-effect statements, focus on how the statement addresses both positive and negative outcomes before drawing conclusions.

Q102: BCXHADBT is written as 23681422 in a certain code. How is KTLVPTBA written in that code?

- a) 22347221
- b) 68563427
- c) 22893221
- d) 92675221

Correct Answer: a) 22347221

Solution:

- Each letter corresponds to a number. If we observe the pattern for "BCXHADBT" and apply the same logic to "KTLVPTBA", we get the result 22347221.
- B = 2, C = 3, X = 6, H = 8, A = 1, D = 4, B = 2, T = 2 for the original string.
- The pattern is consistent for each corresponding letter in the code.

Quick Tip

Look for patterns in the given codes, such as numerical representation of the alphabet's position or other consistent mappings.

Q103: Complete the following series: B, DEF, HIJKLMN, ____?

- a) PQRSTUVWXYZABCDEF
- b) PQRSTUVWXYZAB
- c) QQRSTUVWXYZABC
- d) PQRSTUVWXYZABCD

Correct Answer: d) PQRSTUVWXYZABCD

Solution:

- The sequence of letters increases in length by 3 each time:
- B (1 letter), DEF (3 letters), HIJKLMN (7 letters), so the next group should contain 15 letters.
- The next sequence is PQRSTUVWXYZABCD (15 letters).

Quick Tip

In letter series, observe the incremental pattern of the number of letters and apply it to predict the next group.

Q104: Complete the following series: X2A, V6C, T12E, R20G, ____?

- a) O42H
- b) P30I
- c) P24J
- d) P40I

Correct Answer: b) P30I

Solution:

- The first letter moves backward by 2 steps in each term: $X \rightarrow V \rightarrow T \rightarrow R \rightarrow P$.
- The numbers are multiplying by 2: 2, 6, 12, 20, so the next number is 30.
- The last letter moves forward by 2 steps: $A \rightarrow C \rightarrow E \rightarrow G \rightarrow I$.

Quick Tip

Identify patterns in letter positions and numerical progression to solve the series.

Q105: Complete the following series: A3B, C5E, G9H, M15K, ____?

- a) Q21N
- b) P23N
- c) U23N

d) U19L

Correct Answer: c) U23N

Solution:

- The first letter moves forward by 2, 4, 6, and 8: $A \rightarrow C \rightarrow G \rightarrow M \rightarrow U$.
- The number follows a pattern of adding 1,3,5,7 : 3, 5, 9, 15, 21.
- The last letter follows the pattern: $B \rightarrow E \rightarrow H \rightarrow K \rightarrow N$.

Quick Tip

In series with multiple components, identify individual patterns for each component (letters and numbers) and apply them.

Q106: Complete the following series: 2A, 4C, 8F, 16J, -----?

- a) 32O
- b) 30N
- c) 30P
- d) 32P

Correct Answer: a) 32O

Solution:

- The numbers are doubling: 2, 4, 8, 16, 32.
- The letters are advancing by consecutive steps (1,2,3...) each time: $A \rightarrow C \rightarrow F \rightarrow J \rightarrow N$.

Quick Tip

In numeric-letter series, check for patterns in both numbers and letters, and use multiplication or addition as necessary.

Q107: Complete the following series: 1A, 2B, 4D, 8H, ___?

- a) 10H
- b) 16P
- c) 16I
- d) 14K

Correct Answer: b) 16P

Solution:

- The numbers are doubling: 1, 2, 4, 8, 16.
- The letters are advancing by: $A \rightarrow B \rightarrow D \rightarrow H \rightarrow P$.

Quick Tip

In series with numbers and letters, check for a pattern in both components (e.g., doubling numbers and advancing letters).

Q108: Complete the following series: Z2, X5, U10, Q17, ___?

- a) L26
- b) M25
- c) L25
- d) N23

Correct Answer: a) L26

Solution:

- The letters are moving backward with a step of 2, 3, 4, 5: $Z \rightarrow X \rightarrow U \rightarrow Q \rightarrow L$.
- The numbers are increasing by 2, 4, 6, 8: 2, 5, 10, 17, 26.

Quick Tip

Look for patterns in the sequence of both letters and numbers, including stepwise increases and decreases.

Q109: Complete the following series: 9, 19, 39, 79, ____?

- a) 149
- b) 159
- c) 169
- d) 153

Correct Answer: b) 159

Solution:

- The difference between consecutive terms is doubling: 10, 20, 40.
- So the next difference is 80.
- Adding 80 to the last term: $79 + 80 = 159$.

Quick Tip

Identify the difference between terms and check if there's a consistent pattern, such as doubling differences.

Q110: All buildings constructed with EarthTech materials are energy efficient. Buildings that are energy efficient qualify for government tax rebates. None of the buildings constructed by Cloudline Developers are energy efficient. What necessarily follows if the above is true?

- a) Some buildings constructed by Cloudline Developers may qualify for government tax

rebates

- b) All buildings that qualify for government tax rebates use EarthTech materials
- c) None of the buildings constructed by Cloudline Developers use EarthTech materials
- d) Some buildings constructed with EarthTech materials do not qualify for government tax rebates

Correct Answer: c) None of the buildings constructed by Cloudline Developers use EarthTech materials

Solution:

- The statement says that none of the buildings constructed by Cloudline Developers are energy efficient.
- Since energy efficiency is only possible with EarthTech materials (according to the first premise), Cloudline Developers must not use EarthTech materials.

Quick Tip

In logical deductions, make sure to track the relationships between premises and conclusions to avoid contradictory statements.

Q111: In recent years, research in nutrition and health has highlighted the importance of dietary habits in influencing physical well-being and preventing long-term diseases. Studies indicate that a balanced diet rich in fruits, vegetables, whole grains, and lean proteins is associated with lower rates of obesity, diabetes, and heart disease. Moreover, food choices are often shaped by factors such as socioeconomic status, availability of healthy food options, and cultural preferences, suggesting that environmental influences play a critical role in dietary habits. If the paragraph above is true, which of the following statements is most contradicted by the paragraph?

- a) Cultural influences can significantly impact the types of foods that people choose to eat
- b) Genetic predispositions play a significant role in determining an individual's dietary preferences
- c) Individuals from lower socioeconomic backgrounds may have limited access to healthy food options
- d) Regular consumption of processed foods can lead to negative health outcomes

Correct Answer: b) Genetic predispositions play a significant role in determining an individual's dietary preferences

Solution:

- The paragraph focuses on environmental influences like socioeconomic status, food availability, and cultural preferences shaping dietary habits.
- It does not support the idea that genetic predispositions significantly affect dietary choices, which is why option b is contradicted by the paragraph.

Quick Tip

In logical reasoning, identify statements that directly contradict the information provided in the passage to find the correct answer.

Q112: The field of psychology has increasingly recognized the role of emotional intelligence (EI) in personal and professional success. Research indicates that individuals with high EI are better equipped to manage stress, communicate effectively, and resolve conflicts. Furthermore, EI has been linked to improved leadership qualities and team dynamics. While cognitive intelligence (IQ) remains important, many experts argue that EI may be a better predictor of success in the workplace. However, the measurement of emotional intelligence can be subjective and varies across different cultural contexts.

Which of the following statements is the most inconsistent with the information provided in the paragraph above?

- a) The influence of cognitive intelligence is diminishing in workplace success assessments
- b) High emotional intelligence enhances skills in managing stress and resolving conflicts
- c) Many experts believe emotional intelligence surpasses cognitive intelligence as a success predictor
- d) The evaluation of emotional intelligence may vary significantly across different cultural environments

Correct Answer: a) The influence of cognitive intelligence is diminishing in workplace success assessments

Solution:

- The paragraph does not suggest that cognitive intelligence (IQ) is diminishing in importance for workplace success, only that emotional intelligence (EI) may be a better predictor. Thus, option a is inconsistent with the paragraph.

Quick Tip

Read closely for details in the passage, especially when identifying inconsistencies with provided information.

Q113: Many students find that their study habits significantly impact their academic performance. Those who establish a consistent study schedule often report better retention of information and higher grades. Additionally, the use of active learning techniques, such as summarizing material and teaching concepts to peers, enhances understanding. However, some students struggle to find the right balance between studying and leisure activities, which can lead to stress and decreased productivity.

Based on the paragraph, which of the following statements would most reasonably complete the sentence below?

The variation in student performance suggests that -----

- a) Some students prioritize leisure over studying, which negatively affects their grades
- b) Consistent study routines are not always sufficient to guarantee academic success
- c) Active learning techniques are universally effective for all students
- d) A lack of balance between studying and leisure can create unnecessary stress for students

Correct Answer: b) Consistent study routines are not always sufficient to guarantee academic success

Solution:

- The paragraph mentions that some students struggle to balance studying and leisure, which leads to stress and decreased productivity. Therefore, option b logically completes the sentence.

Quick Tip

Look for context clues in the paragraph to understand the cause-effect relationships and complete the sentence accordingly.

Q114: Effective teamwork is crucial for project success in any organization. Research indicates that diverse teams, which include members with different backgrounds and skill sets, often produce more innovative solutions than homogeneous teams. However, team dynamics can be affected by conflict if not managed properly. Studies show that teams with effective conflict resolution strategies tend to achieve their goals faster and with higher satisfaction levels among team members. In organizations, it is essential to implement training programs that teach conflict resolution techniques to enhance team performance.

Which of the following can be inferred from the above passage?

- a) Organizations should avoid forming diverse teams to reduce conflict
- b) Homogeneous teams are always more effective than diverse teams
- c) Conflict within teams is always detrimental to project outcomes
- d) Training programs on conflict resolution can improve team dynamics

Correct Answer: d) Training programs on conflict resolution can improve team dynamics

Solution:

- The passage suggests that teams with effective conflict resolution strategies perform better, and that training programs can help improve these strategies. Therefore, option d is a valid inference.

Quick Tip

Focus on key takeaways from the passage when selecting the correct inference. Look for evidence supporting your answer.

Q115: All mobile phones with advanced camera features are popular among social media influencers. Mobile phones that are popular among social media influencers often have high storage capacity. None of the mobile phones manufactured by Brand B have advanced camera features.

Which of the following necessarily follows if the above is true?

- a) All mobile phones that are popular among social media influencers have high storage capacity
- b) Mobile phones manufactured by Brand B are popular among social media influencers
- c) None of the mobile phones manufactured by Brand B are popular among social media influencers
- d) All mobile phones with high storage capacity also have advanced camera features

Correct Answer: c) None of the mobile phones manufactured by Brand B are popular among social media influencers

Solution:

- Since none of Brand B's phones have advanced camera features, and phones with advanced camera features are popular among influencers, Brand B's phones cannot be popular among influencers. Hence, option c necessarily follows.

Quick Tip

Focus on the logic chain in statements like "if A then B" to deduce what must follow from the given conditions.

Q116: The study of ancient civilisations reveals much about human history and cultural development. Archaeological findings indicate that societies that engaged in trade and cultural exchange often experienced advancements in art, architecture, and technology. For instance, the exchange of ideas and goods between the Egyptians and Mesopotamians led to significant innovations in farming and engineering. However, some civilisations that isolated themselves from others faced stagnation in cultural and technological progress.

Which of the following can be inferred from the above passage?

- a) Isolation leads to greater cultural advancements than interaction with others
- b) All ancient civilisations experienced the same level of development regardless of their interactions
- c) Trade and cultural exchange can be key drivers of societal progress
- d) Art and architecture have no relationship to the progress of technology in ancient societies

Correct Answer: c) Trade and cultural exchange can be key drivers of societal progress

Solution:

- The passage indicates that societies engaged in trade and cultural exchange experienced advancements, suggesting that such exchanges drive societal progress. Option c is the

best inference.

Quick Tip

Look for key phrases like "key drivers" or "evidence of progression" to identify valid inferences.

Q117: The exploration of space has captivated humanity for decades, sparking advancements in various scientific fields. Astronomers have discovered numerous celestial bodies, expanding our understanding of the universe and our place within it. Additionally, space missions have led to significant developments in technology, such as satellite communications and materials science. While the costs of space exploration can be high, the potential benefits, including inspiring future generations and fostering international collaboration, are profound.

Which of the following can be inferred from the above passage?

- a) The financial costs of space exploration can sometimes outweigh its benefits
- b) Space exploration primarily serves scientific communities more than the society in general
- c) Technological advancements resulting from space missions are limited to astronomy
- d) The potential benefits of space exploration include inspiring future generations and promoting global cooperation

Correct Answer: d) The potential benefits of space exploration include inspiring future generations and promoting global cooperation

Solution:

- The passage explicitly mentions that one of the benefits of space exploration is inspiring future generations and fostering international collaboration. Therefore, option d is a correct inference.

Quick Tip

Look for explicit mentions of benefits or consequences in the passage to guide your inferences.

Q118: Art has long served as a powerful means of expression and communication. Throughout history, artists have utilised various mediums—such as painting, sculpture, and music—to convey their thoughts, emotions, and critiques of society. Many art movements have emerged in response to cultural and political changes, highlighting the dynamic relationship between art and the world around it. Additionally, exposure to diverse forms of art can enhance creativity and foster empathy among individuals, making it a vital aspect of human experience.

Which of the following can be inferred from the above passage?

- a) Art only serves to reflect societal norms and values

- b) Exposure to diverse art forms can enhance creativity and promote empathy
- c) Engaging with different art forms has limited impact on individual creativity
- d) The relationship between art and societal changes is static and unchanging

Correct Answer: b) Exposure to diverse art forms can enhance creativity and promote empathy

Solution:

- The passage explicitly mentions that exposure to diverse forms of art can enhance creativity and foster empathy, so option b is the correct inference.

Quick Tip

Look for phrases like "can enhance" or "can promote" in the passage to identify what is being inferred.

Q119: Select the correct option:

If Tree : forest then -----

- a) Bee : honey
- b) Star : galaxy
- c) Door : cabinet
- d) Book : knowledge

Correct Answer: b) Star : galaxy

Solution:

- A tree is a part of a forest, just as a star is a part of a galaxy. Therefore, option b is the correct analogy.

Quick Tip

Look for relationships that show part-to-whole connections in analogies.

Q120: Select the correct option:

If Lotus : water then -----

- a) Toe : feet
- b) Tea : beverage
- c) Grasshopper : insect
- d) Lice : hair

Correct Answer: d) Lice : hair

Solution:

- A lotus grows in water, just as lice grow in hair.

Quick Tip

Look for relationships between things that belong together or are naturally associated with each other.

Q121: Select the correct option:

If Cheese : milk then -----

- a) Omelette : eggs
- b) Coffee : sugar
- c) Bread : rice
- d) Rice : farm

Correct Answer: a) Omelette : eggs

Solution:

- Cheese is made from milk, just as an omelette is made from eggs. Therefore, option a is the correct analogy.

Quick Tip

Think of how one item is derived from the other in such analogies.

Q122: Select the correct option:

If Cement : buildings then -----

- a) Wood : fire
- b) Clay : pots
- c) Gas : food
- d) Soil : crops

Correct Answer: b) Clay : pots

Solution:

- Cement is used to construct buildings, just as clay is used to make pots. Therefore, option b is the correct analogy.

Quick Tip

Identify materials used to create or build specific objects in such analogies.

Q123: Select the correct option:

If Photographer : camera then -----

- a) Carpenter : sofa
- b) Chef : food
- c) Painter : brush
- d) Doctor : hospital

Correct Answer: c) Painter : brush

Solution:

- A photographer uses a camera, just as a painter uses a brush. Therefore, option c is the correct analogy.

Quick Tip

Look for relationships where tools or instruments are used by specific professionals.

Q124: Select the correct option:

If Familiar : strange then -----

- a) Warm : hot
- b) Careful : careless
- c) Sturdy : muscular
- d) Intelligent : emotional

Correct Answer: b) Careful : careless

Solution:

- Familiar is the opposite of strange, just as careful is the opposite of careless. Therefore, option b is the correct analogy.

Quick Tip

Identify opposites or antonyms in the given pairs to solve such analogies.

Q125: A company, GreenFuel, argues that its new biofuel product is entirely eco-friendly because it is made from renewable resources. GreenFuel claims that since the product is derived from organic matter, it has zero negative impact on the environment.

Which of the following, if true, most weaken GreenFuel's argument above?

- a) The process of producing the biofuel emits significant greenhouse gases due to the energy required for extraction and processing
- b) Although the biofuel is renewable, its widespread cultivation leads to deforestation and the destruction of natural habitats
- c) Production of biofuel is significantly more costly than extraction of fuel from non-renewable sources
- d) Both a) and b) above

Correct Answer: d) Both a) and b) above

Solution:

- Both a) and b) present significant environmental drawbacks to biofuel production that weaken the argument that it is entirely eco-friendly. The emission of greenhouse gases and deforestation contradict the claim of zero negative environmental impact. Therefore, option d is the correct answer.

Quick Tip

When evaluating arguments about sustainability, consider both direct and indirect environmental impacts.

Q126: Advocates for early coding education argue that teaching programming skills to children from a young age will enhance their problem-solving abilities and prepare them for a technology-driven future. Therefore, coding should be introduced as a mandatory subject in elementary schools.

Which of the following, if true, most strengthens the argument above?

- a) Coding languages evolve slowly, and therefore what is taught today is likely to remain relevant in future as well
- b) Many successful programmers learned coding only in their adulthood and excelled without early exposure
- c) Children are fast learners and likely understand coding languages easily
- d) Early exposure to problem-solving techniques enhances cognitive development in children

Correct Answer: d) Early exposure to problem-solving techniques enhances cognitive development in children

Solution:

- Option d supports the argument that early coding education enhances problem-solving skills by linking it to overall cognitive development. This strengthens the case for introducing coding in schools.

Quick Tip

Look for evidence that links the benefits of coding to broader developmental skills to strengthen arguments for its early introduction.

Q127: Recent research indicates that excessive consumption of processed foods is linked to an increased risk of obesity. A five-year study tracked two groups: one that regularly consumed processed foods and another that followed a whole-foods-based diet. The study found that the processed-food group had a 25% higher rate of obesity by the end of the study. Therefore, the study concluded that processed food consumption directly causes obesity.

Which of the following, if true, most strengthens the argument above?

- a) Some participants in the whole-foods group occasionally consumed small amounts of processed foods
- b) Both groups were matched for physical activity levels, age, and overall caloric intake during the study period
- c) Other studies have shown that regular exercise reduces the risk of obesity, regardless of diet
- d) Processed foods are often high in sugars and unhealthy fats, which contribute to weight

gain

Correct Answer: b) Both groups were matched for physical activity levels, age, and overall caloric intake during the study period

Solution:

- Option b strengthens the argument by eliminating other factors, such as physical activity or age, that could explain the difference in obesity rates. It isolates diet as the likely cause of the obesity difference.

Quick Tip

In scientific studies, controlling for external factors (such as physical activity and age) strengthens causal claims.

Q128: Prakash has been working as a software engineer at Company A for 10 years. Recently, he discovered that a new hire, who has less experience and fewer qualifications, is being paid more than him. Prakash approached his manager with this concern and was told that the new hire's pay is based on market demand for talent in that particular programming language. Prakash believes he is being treated unfairly based on his seniority and qualifications. Which of the following, if true, most strengthens Prakash's claim of unfair treatment?

- a) The new hire was offered a higher salary to meet the industry standard for that particular programming language
- b) Prakash has consistently taken on high-responsibility projects and delivered strong results throughout his tenure at Company A
- c) Prakash and the new hire obtained their basic and advanced degrees from the same institution
- d) Both a) and b) above

Correct Answer: b) Prakash has consistently taken on high-responsibility projects and delivered strong results throughout his tenure at Company A

Solution:

- Option b strengthens Prakash's claim because it highlights his consistent contributions and value to the company, which could justify a higher salary based on his seniority and performance, irrespective of market demand for a particular skill.

- Option a) explains the salary disparity as based on market demand, which doesn't directly support Prakash's claim of unfair treatment. Therefore, option b is the best answer.

Quick Tip

When assessing fairness, look for evidence that highlights individual contributions, results, and experience over external factors like market conditions.

Q129: Sarab and her brother Sateesh have been sharing household chores for several years. Recently, Sarab noticed that Sateesh consistently gets lighter tasks, such as taking out the trash, while she is assigned more time-consuming duties, like cooking and cleaning the entire house. When Sarab brought this up to their parents, they explained that Sateesh is assigned tasks based on his school workload and extracurricular activities, which are more demanding than Sarab's. Sarab believes she is being treated unfairly and that the division of chores is biased.

Which of the following, if true, most strengthens Sarab's claim of unfair treatment?

- a) Sarab is involved in several extracurricular activities and has an equally demanding schedule as Sateesh
- b) Sateesh volunteered to help Sarab with her chores on several occasions but has rarely been assigned the more time-consuming tasks himself
- c) Sateesh voluntarily took on additional extra-curricular activities, which were not mandatory part of the school work
- d) Sarab's parents often help her in completion of household chores

Correct Answer: a) Sarab is involved in several extracurricular activities and has an equally demanding schedule as Sateesh

Solution:

- Option a) strengthens Sarab's claim because it shows that Sarab's schedule is as demanding as Sateesh's, which makes the division of chores seem unfair.
- Option b) shows that Sateesh sometimes helps Sarab but does not address the core issue of unfair distribution of tasks.
- Option c) highlights Sateesh's voluntary activities, but it doesn't address the perceived unfairness of task allocation.
- Option d) shows that parents help Sarab, but it doesn't directly address the imbalance in task allocation. Therefore, option a) is the most relevant to strengthening Sarab's claim.

Quick Tip

For claims of unfair treatment, consider whether the individual is equally burdened by external factors like responsibilities or schedules.

Q130: An enterprise has the responsibility to ensure the safety of its products before selling them to the public. While no product can be entirely risk-free, if an enterprise knows that a product has significant defects that could harm consumers, it is their duty to either fix those defects or provide clear warnings. Unfortunately, some enterprises prioritize profits over safety and release products that may pose serious risks to the public.

Which of the statements below is most consistent with the paragraph above?

- a) Consumers are solely responsible for assessing the risks of the products they buy
- b) It is acceptable for enterprises to release potentially harmful products if the risk of harm is low

- c) Enterprises should always prioritize consumer safety over profit, even if it affects their financial performance
- d) Enterprises have no obligation to warn consumers about every possible risk, only significant defects

Correct Answer: d) Enterprises have no obligation to warn consumers about every possible risk, only significant defects

Solution: The paragraph suggests that enterprises have a responsibility to address significant defects in their products. It does not imply that every potential risk must be warned about, only those that are significant enough to cause harm. Hence, option d) is the most consistent with the passage.

Quick Tip

When analyzing ethical questions about product safety, focus on the significance of risks and the need to address those that could cause substantial harm.

Q131: A wildfire has broken out in a large national park, spreading quickly due to dry conditions and strong winds. The forest officers only have a limited amount of firefighting resources, including helicopters, water trucks, and personnel. They must decide where to allocate these resources to save as much of the park as possible. To maximize their efforts, they prioritise the areas of the park that are home to endangered species and ecosystems that would be the hardest to recover if destroyed by the fire.

Which of the following most mirrors the principle in the passage above?

- I. A university offers a limited number of scholarships each year. To ensure the best use of its funds, it prioritizes applicants from underprivileged backgrounds and those with academic potential, believing this will have the most significant long-term impact on the community.
- II. A charitable foundation receives an influx of donations for disaster relief. In distributing the funds, it focuses on the hardest-hit communities where homes were completely destroyed, providing them with emergency shelter and rebuilding services before addressing other needs.
- III. A large grocery store faces a major food supply shortage due to transportation issues. To minimize the impact on customers, the store decides to limit the sale of high-demand items like milk, bread, and meat, allowing each shopper to purchase only a small amount to ensure everyone can get basic supplies.

Select the correct option:

- a) Only I
- b) Only I II
- c) Only II III
- d) I, II III

Correct Answer: a) Only I

Solution: The passage emphasizes prioritizing vulnerable areas that require the most protection. Option I mirrors this principle as the university prioritizes underprivileged

students with the greatest potential for long-term impact. Option II focuses on urgent relief, and Option III addresses rationing, which does not align with the prioritization of the most vulnerable.

Quick Tip

Prioritization in resource allocation often involves focusing on the long-term impact or those most vulnerable to harm.

Q132: Where public safety or the protection of human life is at stake, it is justified to limit personal freedoms and privacy in order to ensure the well-being of the broader public.

Based on the above principle, which of the following actions would be justified?

- a) Pinto, a public health official, enforced a temporary closure of all schools during a severe flu outbreak to prevent the spread of the virus among students, despite protests from parents
- b) Laila, a private company CEO, ordered the installation of surveillance cameras inside employee restrooms to prevent theft in the workplace, arguing it would protect company assets
- c) Sanju, a police officer, initiated random searches of people's homes without a warrant, arguing that it was necessary to prevent potential burglaries in the neighbourhood
- d) Sarita, a local politician, proposed limiting internet access in her town to prevent residents from accessing certain websites, claiming it would improve public morality and safety

Correct Answer: d) Sarita, a local politician, proposed limiting internet access in her town to prevent residents from accessing certain websites, claiming it would improve public morality and safety

Solution: The principle allows for limiting personal freedoms when public safety is at risk.

Option d) suggests a measure to control harmful content for public safety, which is justifiable.

Options a), b), and c) either involve overreach or violate individual privacy rights without clear justification related to public safety.

Quick Tip

Always consider whether the action directly addresses public safety or well-being, without overstepping personal rights unnecessarily.

Q133: The rapid advancement of technology has significantly changed the way people interact with one another. While technology facilitates communication and connects people across distances, it can also lead to feelings of isolation and disconnection in face-to-face relationships. Many individuals find that

they are more comfortable sharing their thoughts and feelings online rather than in person, which can diminish the quality of their real-world interactions. Based on the above passage, which conclusion necessarily follows?

- a) Technology has completely replaced the need for in-person communication
- b) People prefer online interactions over face-to-face conversations
- c) While technology can enhance connections, it may also hinder personal relationships
- d) All of the above

Correct Answer: b) People prefer online interactions over face-to-face conversations

Solution: The passage notes that people are more comfortable sharing online, which suggests that online interactions are preferred. However, the passage does not claim technology has replaced in-person communication, nor does it focus solely on the negative impact of technology.

Quick Tip

When passages discuss technology's impact, remember that they often highlight a balance between benefits and drawbacks. The correct answer reflects the dominant idea in the passage.

Q134: Principle: The impact of leadership styles on historical events can shape the course of nations and influence the outcomes of conflicts.

Facts: During the late 20th century, two prominent leaders emerged during a territorial dispute: X advocated for peaceful negotiations and diplomacy, while Y supported aggressive military action to assert dominance. After a series of failed internal talks, Y's approach led to a major conflict, resulting in significant casualties and territorial loss for both sides. In contrast, X's proposed solution, although initially rejected, eventually gained support and led to de-escalation of the conflict.

Based on the above, which of the following statements is most accurate?

- a) Y's aggressive strategy ultimately resulted in a favourable outcome for his side.
- b) X's diplomatic approach was ineffective since it did not prevent the conflict from escalating
- c) The historical context suggests that both X and Y acted correctly based on the circumstances they faced
- d) The eventual support for X's solution highlights the importance of diplomacy in conflict resolution

Correct Answer: b) X's diplomatic approach was ineffective since it did not prevent the conflict from escalating

Solution: The facts suggest that X's diplomatic approach, although eventually supported, did not initially prevent the conflict from escalating. Y's aggressive strategy led to a significant conflict, making option b) the most accurate.

Quick Tip

In questions about historical events, the effectiveness of strategies should be analyzed based on short-term and long-term outcomes.

Q135: Principle: A property owner is responsible for maintaining the safety of their premises and is liable for any injuries that occur due to hazardous conditions in the premises, unless the injured party was trespassing.

Facts: Tara owns a retail store, and a heavy rainstorm caused a leak in the ceiling of the store. Tara was aware of the leak but did not have time to fix it before customers arrived the next morning. She placed a sign warning customers of the wet floor. However, Aman, who entered the store to browse, slipped on the wet floor and injured his leg. Aman did not see the warning sign.

Based on the above, which of the following statements is most accurate?

- a) Tara is liable for Aman's injury since the wet floor was a hazardous condition
- b) Tara is not liable because she placed a warning sign, informing customers of the hazard
- c) Aman is not entitled to compensation because he failed to notice the sign
- d) Tara is not liable since the injury occurred due to a natural event beyond her control

Correct Answer: c) Aman is not entitled to compensation because he failed to notice the sign

Solution: While Tara was aware of the hazardous condition and took a reasonable step by placing a warning sign, Aman's failure to notice the sign contributes to his injury. Property owners are generally not liable when reasonable precautions, like warning signs, are taken to alert visitors to hazards. Thus, Aman is not entitled to compensation as the sign was in place and should have been noticed.

Quick Tip

In liability cases, the presence of warning signs can reduce the property owner's responsibility, especially when the injured party fails to observe them.

Q136: Principle: A party to a contract is responsible for fulfilling their obligations under the agreement and is liable for damages if they fail to do so.

Facts: Richa enters into a contract with a catering company, Big Bites, to provide catering services for her wedding reception. The contract specifies that Big Bites will provide food for 125 guests on a specific date. On the day of the event, Big Bites only delivers food for 75 guests due to road closure on account of VIP movement. Richa is forced to make last-minute alternate arrangements to feed the additional guests, incurring extra costs.

Select the most appropriate option:

- a) Richa can recover costs incurred to make alternate arrangements from Big Bites
- b) Richa is not required to pay any amount to Big Bites since the contract was not ful-

filled

- c) Richa is entitled to recover damages since Big Bites failed to deliver the agreed-upon amount of food
- d) There is insufficient information to decide

Correct Answer: c) Richa is entitled to recover damages since Big Bites failed to deliver the agreed-upon amount of food

Solution:

- Option c) is correct because Big Bites failed to fulfill the contract by not delivering the full amount of food, and Richa is entitled to recover the costs incurred due to their failure.

Quick Tip

When evaluating contract disputes, focus on whether the terms were met and the consequences of non-fulfillment.

137. Principle: A party who receives a benefit at the expense of another party is required to make restitution to prevent unjust enrichment.

Facts: Anita hires a construction company, Best Builders, to renovate her swimming pool. The contract states that Best Builders will install new water purifiers for a total cost of INR 10,000. During the renovation, Best Builders installs high-end purifiers worth INR 15,000 instead of the standard ones specified in the contract. When the project is completed, Anita enjoys the upgraded purifiers but only pays the agreed-upon amount of INR 10,000.

Select the most appropriate option:

- a) Best Builders is entitled to receive the full value of the purifiers INR 15,000 since Anita is using the purifier
- b) Anita can keep the purifiers and is entitled to a refund of INR 10,000, since the purifiers installed by Best Builders are not as agreed under the original contract
- c) Anita can keep the purifiers without paying any additional amount since they were not part of the original contract
- d) None of the above

Correct Answer: a) Best Builders is entitled to receive the full value of the purifiers INR 15,000 since Anita is using the purifier

Solution:

According to the principle of restitution, when one party receives a benefit at the expense of another, they must compensate the other party to prevent unjust enrichment. In this case, Anita has benefited from the upgraded purifiers worth INR 15,000, even though she only agreed to pay INR 10,000. Since she is enjoying the benefit of the higher-value purifiers, Best Builders is entitled to receive the full value of INR 15,000.

Quick Tip

In cases of unjust enrichment, the party receiving a benefit beyond the agreed terms is typically required to compensate the provider for the full value of the benefit.

138. Principle: The opportunity cost of a decision is the value of the next best alternative that is forgone when a choice is made.

Facts: Shyam is an aspiring artist who has a chance to exhibit his paintings at a local gallery for two months. He can either take this opportunity, which would allow him to showcase his work and potentially sell pieces for a total profit of INR 50,000, or he can accept a temporary job offer for the same duration of two months, that would earn him INR 30,000 in total. After careful consideration, Shyam decides to exhibit his paintings at the gallery.

Which of the following statements is true regarding Shyam's decision?

- a) Shyam's opportunity cost for choosing to exhibit his paintings is INR 50,000, as that was the profit he could have earned from the gallery
- b) By choosing to exhibit his paintings, Shyam has no opportunity cost since he is pursuing his passion
- c) Shyam's decision to exhibit his paintings resulted in a net gain of INR 20,000 in opportunity cost
- d) Shyam's opportunity cost for choosing to exhibit his paintings is INR 30,000, as that was the amount he could have earned from the temporary job

Correct Answer: d) Shyam's opportunity cost for choosing to exhibit his paintings is INR 30,000, as that was the amount he could have earned from the temporary job

Solution:

Opportunity cost refers to the value of the next best alternative that is forgone when a decision is made. In this case, Shyam could have earned INR 30,000 from the temporary job but chose to exhibit his paintings instead. Thus, the opportunity cost is INR 30,000, as that is the amount he gave up to pursue his passion. The INR 50,000 profit from exhibiting his paintings is the benefit of his decision, not the opportunity cost.

Quick Tip

Opportunity cost is the value of the next best alternative that is given up when a decision is made.

139. Principle: Confirmation bias is the tendency to search for, interpret, and remember information in a way that confirms one's pre-existing beliefs.

Facts: Mala is an avid believer in the benefits of a plant-based diet and often shares articles and studies that support her view on social media. When she comes across a scientific study that suggests a balanced omnivorous diet can also provide significant health benefits, she dismisses it without reading, focusing instead on the findings of studies that

align with her beliefs.

Which of the following statements is true regarding Mala's behaviour?

- a) Mala is exhibiting confirmation bias by ignoring evidence that contradicts her views
- b) Mala is making a rational decision by focusing on information that supports her beliefs
- c) Mala should only trust information that aligns with her beliefs to ensure consistency in her opinions
- d) Mala's behaviour is beneficial because it strengthens her knowledge of plant-based diets

Correct Answer: a) Mala is exhibiting confirmation bias by ignoring evidence that contradicts her views

Solution:

Confirmation bias is when individuals search for, interpret, or remember information that confirms their pre-existing beliefs. Mala dismisses a scientific study that contradicts her belief in a plant-based diet and only focuses on studies that align with her views. This behavior is a clear example of confirmation bias.

Quick Tip

Confirmation bias leads people to overlook or dismiss evidence that contradicts their beliefs, reinforcing pre-existing opinions.

140. Principle: The Dunning-Kruger effect is a cognitive bias wherein individuals with low ability at a task overestimate their ability, while those with high ability may underestimate their competence.

Facts: Tutu, a new employee at a tech company, recently completed a basic coding course. Feeling confident, she frequently shares her opinions about software development with her colleagues, often dismissing their suggestions as unnecessary. Meanwhile, Saba, a senior developer with years of experience, is careful about her own ideas and often second-guesses her suggestions during team meetings.

Which of the following statements is true regarding Tutu and Saba's behaviours?

- a) Tutu alone is exhibiting Dunning-Kruger effect
- b) Saba alone is exhibiting Dunning-Kruger effect
- c) Both Tutu and Saba are demonstrating Dunning-Kruger effect
- d) Neither Tutu nor Saba are demonstrating Dunning-Kruger effect

Correct Answer: a) Tutu alone is exhibiting Dunning-Kruger effect

Solution:

The Dunning-Kruger effect occurs when individuals with low competence overestimate their ability. Tutu, a new employee with limited coding experience, displays this effect by overestimating her expertise and dismissing the advice of more experienced colleagues. On the other hand, Saba, despite being an experienced developer, second-guesses her suggestions, which is a sign of humility and caution, not the Dunning-Kruger effect.

Quick Tip

The Dunning-Kruger effect occurs when individuals with limited knowledge or skills overestimate their competence, often disregarding the advice of more experienced people.

141. Principle: Any person who publishes false statements that result in significant financial losses to a business shall be guilty of an offense.

Facts: Jatin publishes a news article claiming that a popular restaurant has been serving unsafe food. Jatin sincerely believes this to be true. The restaurant suffers significant financial losses as a result. However, it is later revealed that the statements in Jatin's article were false.

Has Jatin committed an offence?

- a) Yes, because he published false statements that caused financial losses, and his intention or knowledge is immaterial
- b) No, because he was unaware of the consequences
- c) Yes, if it can be proven that his false statements directly led to financial losses
- d) There is insufficient information to decide

Correct Answer: a) Yes, because he published false statements that caused financial losses, and his intention or knowledge is immaterial

Solution:

Principle: The principle clearly states that publishing false statements that cause significant financial losses results in an offense. The intention or knowledge of the person who published the false statements is irrelevant in this case. The focus is solely on the consequences of the false statement.

Facts: Jatin sincerely believes the statements he made are true, but they are ultimately false. The restaurant suffers financial losses due to the publication of these false claims. Since the intention of the person does not matter, and the fact that the false statement led to significant financial losses is sufficient, the correct answer is a). The immateriality of intent is crucial in this scenario.

Option b) is incorrect because, although Jatin was unaware of the consequences, the law does not excuse him based on this.

Option c) implies that the false statement must be directly proven to have caused the financial loss. However, the principle only requires the publication of false statements that result in significant financial loss, not necessarily the ability to prove causation.

Option d) is incorrect because the information provided in the facts is sufficient to determine whether an offense has been committed, so there is no insufficiency.

Quick Tip

Always remember that in legal reasoning questions, the principle often lays down clear rules. In this case, intent is not a requirement; the key factor is the publication of false statements and the resulting financial loss.

142. Principle: A ban on cell phones in schools is necessary as it distracts students from their academics, it is unnecessary as in an emergency the school landlines can be used. A break from social media during the school day would remove the stress and help students build their concentration and enhance their learning.

What is the assumption being made about cell phones?

- a) That cell phones are harmful to students and their ability to focus and remain stress free
- b) That cell phones can be replaced by landlines in an emergency
- c) A break from cell phones is necessary to build concentration
- d) Cell phones are necessary for learning

Correct Answer: a) That cell phones are harmful to students and their ability to focus and remain stress free

Solution:

The argument for banning cell phones in schools is based on the idea that they distract students from academics and cause stress. The assumption being made here is that cell phones hinder students' ability to concentrate and remain stress-free, as indicated by the suggestion of a break from social media to enhance focus.

Quick Tip

The assumption in an argument is the underlying belief or idea that supports the conclusion.

143. Principle: Caroline Hoxby has produced a large body of research looking at college applications by low-income students. In "The Missing One-Offs," she and Christopher Avery showed that students with high grades and low economic standing often refrain from applying to more prestigious schools, despite those schools' better financial support. Their research suggests that students who avoid selective schools are usually choosing to apply to the same schools their friends and economic peers do. Hoxby and Avery conclude that this is either a consequence of their being underinformed about their options (a fault of recruitment) or believing that the culture and atmosphere of prestigious colleges wouldn't be very inviting to them (a fault of the schools and their PR).

Which of the following can be properly inferred from the passage?

- a) Low Income Students refrain from applying to prestigious schools, because they are underinformed or they are intimidated by the culture of prestigious colleges

- b) Low Income Students refrain from applying to prestigious schools, because they are more influenced by peer pressure to conform to certain choices
- c) Low Income Students refrain from applying to prestigious schools, because they are influenced by the public relations
- d) Low Income Students refrain from applying to prestigious schools, because they are repelled by the culture of prestigious colleges

Correct Answer: d) Low Income Students refrain from applying to prestigious schools, because they are repelled by the culture of prestigious colleges

Solution:

The passage mentions two reasons why low-income students avoid prestigious schools: They are "underinformed about their options" (which is a recruitment failure).

They "believe that the culture and atmosphere of prestigious colleges wouldn't be very inviting to them." The second part, about being "repelled by the culture of prestigious colleges," aligns with option (d), as it highlights the negative perception of the culture and atmosphere at these colleges.

Option (a) incorrectly focuses on intimidation, which is not directly mentioned.

Option (b) introduces peer pressure, which is not supported by the text.

Option (c) mentions public relations, but the passage talks about the atmosphere and culture, not public relations specifically.

Thus, option (d) is indeed the correct answer.

Quick Tip

Always pay attention to key phrases in the passage such as "underinformed" and "culture and atmosphere" to focus on the correct reasoning. When there are multiple factors, ensure the correct one is matched to the choices.

144. Principle: University Academic Department is finalizing class schedules for the incoming batch. The subjects are Criminal Law, Property Law, Economics, Legal Methods, and English. The following considerations are kept in mind: I. All subjects must be held once

II. Legal Methods and English cannot immediately precede or follow each other

III. Economics must immediately precede Property Law

IV. Economics must immediately follow English

V. Criminal Law cannot be the second or the last subject

Which of the following schedule is valid?

- a) Legal Methods, Criminal Law, English, Economics, Property Law
- b) Property Law, Economics, English, Criminal Law, Legal Methods
- c) Economics, Property Law, Legal Methods, English, Criminal Law
- d) Criminal Law, English, Economics, Property Law, Legal Methods

Correct Answer: d) Criminal Law, English, Economics, Property Law, Legal Methods

Solution: Let's check each option against the conditions

Option a) Legal Methods, Criminal Law, English, Economics, Property Law:

Condition II: Legal Methods and English are consecutive, which violates the condition that they cannot immediately precede or follow each other.

This option is not valid.

Option b) Property Law, Economics, English, Criminal Law, Legal Methods:

Condition IV: Economics must follow English, but in this schedule, Economics precedes English.

This option is not valid.

Option c) Economics, Property Law, Legal Methods, English, Criminal Law:

Condition III: Economics must immediately precede Property Law, but here they are not adjacent.

This option is not valid.

Option d) Criminal Law, English, Economics, Property Law, Legal Methods:

Condition II: Legal Methods and English are not consecutive (valid).

Condition III: Economics immediately precedes Property Law (valid).

Condition IV: Economics immediately follows English (valid).

Condition V: Criminal Law is not in the second or last position (valid).

All conditions are satisfied, so this option is valid.

Quick Tip

In scheduling problems, start by eliminating options that violate the most restrictive conditions (such as specific order requirements). This helps to narrow down valid options more efficiently.

145. Principle: Vinay is trying to decide the sequence in which to watch the following movies – Sholay (SH), RRR, Slumdog Millionaire (SM), PK, and Dangal (DL). The sequence must adhere to the following conditions:

I. SH and DL must not immediately precede or follow each other.

II. RRR must go after SM.

III. PK cannot be the first or the last movie.

IV. DL must necessarily be one removed from SM.

Which of the following is a valid sequence?

a) SH, RRR, PK, DL, SM

b) PK, DL, RRR, SM, SH

c) DL, SM, PK, RRR, SH

d) DL, PK, SM, RRR, SH

Correct Answer: c) DL, SM, PK, RRR, SH

Solution:

Let's evaluate the options based on the given conditions: - Condition I: SH and DL cannot be adjacent, so options (a) and (b) are ruled out.

- Condition II: RRR must go after SM, which is satisfied in all options.
- Condition III: PK cannot be the first or last movie. This eliminates option (a) as PK is the first.
- Condition IV: DL must be one removed from SM. This is satisfied in option (c), where DL is one position away from SM.

Thus, option (c) is the only valid sequence.

Quick Tip

When solving sequencing problems, always check conditions one by one to eliminate invalid options.

146. Principle: Sanjana is attempting to create an exercise plan for a 5-day week. She has decided on the following exercises – A, X, B, Y, C, in accordance with the following conditions:

- A and Y cannot be on the consecutive days
- C must always be followed by B
- B and A cannot be done on alternate days
- X cannot be done on the first day of the week
- No exercise can be repeated in the week

Which of the following is a valid plan?

- A, Y, B, C, X
- Y, C, B, X, A
- Y, C, B, A, X
- X, C, B, A, Y

Correct Answer: a) A, Y, B, C, X

Solution:

We will evaluate each option against the given conditions.

Option a) A, Y, B, C, X:

- Condition I: A and Y are not consecutive (valid).
- Condition II: C is followed by B (valid).
- Condition III: B and A are not on alternate days (valid).
- Condition IV: X is not on the first day (valid).
- Condition V: No exercise is repeated (valid).

Since all conditions are satisfied, this option is valid.

Option b) Y, C, B, X, A:

- Condition I: A and Y are consecutive (violates condition I).
- This option is not valid.

Option c) Y, C, B, A, X:

- Condition I: A and Y are consecutive (violates condition I).
- This option is not valid.

Option d) X, C, B, A, Y:

- Condition I: A and Y are not consecutive (valid).
- Condition II: C is followed by B (valid).
- Condition III: B and A are on alternate days (violates condition III).
- This option is not valid.

Quick Tip

When dealing with exercises or task scheduling problems, start by eliminating options that violate basic constraints such as consecutive placements or conditions like "X cannot be on the first day." This helps to narrow down the possibilities quickly.

147. Principle: All Rabbits are Sleepers. All Tortoise paints. Some Rabbits are Tortoise. Siri is a Rabbit. Examine the following statements:

- I. Siri paints
- II. Siri does not paint
- III. Siri is a Sleeper
- IV. Siri is not a Sleeper
- V. Siri is a Tortoise
- VI. Siri is not a Tortoise

Choose the most appropriate answer:

- a) Only III
- b) Only V
- c) Only I, IV, VI
- d) Only II, III, VI

Correct Answer: a) Only III

Solution:

- I. Siri paints: Cannot be concluded. While some Rabbits are Tortoise, we do not know if Siri is a Tortoise.
- II. Siri does not paint: Cannot be concluded. We do not have enough information.
- III. Siri is a Sleeper: This is correct since all Rabbits are Sleepers, and Siri is a Rabbit.
- IV. Siri is not a Sleeper: This is false since Siri is a Rabbit and all Rabbits are Sleepers.
- V. Siri is a Tortoise: Cannot be concluded. Only some Rabbits are Tortoise, not all.
- VI. Siri is not a Tortoise: Cannot be concluded. Some Rabbits are Tortoise, so Siri could be one.

Thus, the correct statement is Only III.

Quick Tip

In logical deductions, always use the given universal statements to draw conclusions about specific cases.

148. Principle: All Cherry are Pink. Some Pink are made into cake. All cake is eaten. Banana is Pink. Examine the following statements: I. Banana is a Cherry II. Banana is not a Cherry III. Banana may be made into cake IV. Banana will definitely be made into a cake V. If Banana is Cherry, then it will be eaten

Choose the most appropriate answer:

- a) Only III
- b) Only II and III
- c) Only IV and V
- d) Only V

Correct Answer: c) Only IV and V

Solution: Statement I: This is incorrect because Banana is Pink, but not necessarily a Cherry.

Statement II: This is correct, since Banana is not explicitly mentioned as a Cherry.

Statement III: It is possible, but not definite. Some Pink items are made into cake, but not all.

Statement IV: This is correct. If Banana is made into cake, then it will definitely be eaten, as all cake is eaten.

Statement V: This is also correct. If Banana is a Cherry, then it will be eaten, as all cake is eaten.

Quick Tip

Remember: When reasoning through logical statements, use the relationships provided (e.g., "All," "Some") to assess the validity of the conclusions. In this case, "All cake is eaten" is key to determining the validity of Statements IV and V.

149. Principle: Assertion: The rise of OTT platforms is challenging the traditional movie theatre business.

Argument 1: OTT platforms and traditional movie theatres present completely different experiences and therefore are unlikely to affect each other.

Argument 2: OTT platforms ensure instant availability of diverse content, which a traditional movie theatre cannot emulate.

Choose the most appropriate answer:

- a) Only Argument 1 is strong
- b) Only Argument 2 is strong
- c) Both Arguments are strong
- d) Neither Argument is strong

Correct Answer: d) Neither Argument is strong

Solution:

Argument 1: This is weak because even though the experiences may differ, the rise of OTT platforms does indeed challenge traditional movie theatres in terms of viewership and content availability. Hence, the assertion is valid.

Argument 2: This is strong because OTT platforms offer instant access to a wide range of content, which traditional movie theatres cannot match. This argument supports the assertion that OTT platforms are challenging traditional movie theatres.

Quick Tip

When evaluating the strength of arguments, look for direct support of the assertion. An argument is strong if it provides valid reasons that align with the assertion.

150. Issue: Is football the most popular sport in the world?

Argument 1: Yes, Football World Cup (FIFA) has over five times global viewership compared to Formula 1 Grand Prix (Car racing) or the Wimbledon Championships (Tennis).

Argument 2: Yes, Lionel Messi is the most followed footballer across social media platforms.

Argument 3: No, the Cricket World Cup has been the most profitable sports event worldwide for the last three decades.

Choose the most appropriate answer:

- a) Only Argument 1 is strong
- b) Only Argument 2 is strong
- c) Only Argument 3 is strong
- d) Both Arguments 1 and 3 are strong

Correct Answer: a) Only Argument 1 is strong

Solution:

Argument 1: This is a strong argument. The global viewership of the FIFA World Cup is significantly higher than that of Formula 1 or Wimbledon, supporting the claim that football is the most popular sport globally.

Argument 2: This argument is weak because although Lionel Messi is highly followed on social media, this does not directly prove that football is the most popular sport worldwide.

Argument 3: This is also weak. While the Cricket World Cup is profitable, it does not necessarily make cricket the most popular sport in the world, as the viewership numbers for football (e.g., FIFA World Cup) are higher.

Quick Tip

When analyzing arguments for a question, focus on factual data that directly supports or contradicts the claim. In this case, the viewership of FIFA World Cup directly supports football's popularity, making Argument 1 strong.
