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Notations :

- Options shown in **green** color and with  icon are correct.
- Options shown in **red** color and with  icon are incorrect.

Question Paper Name:	Junior Engineer 28th Aug Shift 2 Actual
Subject Name:	Junior Engineer
Creation Date:	2015-08-18 12:43:53.0
Cut Off:	0
Duration:	120
Number of Questions:	150
Total Marks:	150.0

Junior Engineer

Group Number :	1
Group Id :	8
Group Maximum Duration :	0
Group Minimum Duration :	120
Revisit allowed for view? :	No
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Break time:	0
Group Marks:	150.0

Junior Engineer

Section Id :	8
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	150
Number of Questions to be attempted:	150
Section Marks:	150.0

Sub-Section Number:	1
Sub-Section Id:	8
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 1501 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

For an ideal gas the value of joule thomson coefficient is

1. Zero
2. 0.5
3. Unity
4. Infinite

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 2 Question Id : 1502 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Perpetual motion machine of second kind violates the

1. First law of thermodynamics
2. Kelvin-plank statement
3. Clausius statement
4. Third law of thermodynamics

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 3 Question Id : 1503 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The ratio of thermal conductivity to electrical conductivity is equal to

1. Prandtl number
2. Schmidt number
3. Lorentz number
4. Lewis number

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 4 Question Id : 1504 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The effectiveness of a fin will be maximum in an environment with

1. Free convection
2. Forced convection
3. Radiation
4. Convection and radiation

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 5 Question Id : 1505 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

With increasing temperature of intake air, IC engine efficiency

1. Decreases
2. Increases
3. Remains same
4. Depends on other factors

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 6 Question Id : 1506 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Thermal efficiency of CI engine is higher than that of SI engine due to

1. Fuel used
2. Higher compression ratio
3. Constant pressure heat addition
4. Lower compression ratio

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 7 Question Id : 1507 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The float in the carburettor of a petrol engine controls

1. Flow rate of air
2. Flow rate of fuel
3. Flow rate of air-fuel mixture
4. Level of the petrol in the float chamber

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 8 Question Id : 1508 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Angle between the face and flank of the single point cutting tool is known as

1. Rake angle
2. Clearance angle
3. Lip angle
4. Point angle

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 9 Question Id : 1509 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is a cutting tool material

1. High speed steel
2. Mild steel
3. Cast iron
4. Galvanized steel

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 10 Question Id : 1510 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In milling machine, the cutting tool is held in position by

1. Chuck
2. Spindle
3. Arbor
4. Tool holder

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 11 Question Id : 1511 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Collapsible tooth paste tubes are manufactured by

1. Direct extrusion
2. Piercing
3. Impact extrusion
4. Indirect extrusion

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 12 Question Id : 1512 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Sprue in casting refers to

1. Gate
2. Runner
3. Riser
4. Vertical passage

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 13 Question Id : 1513 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In arc welding, arc is created between the electrode and work by

1. Flow of current
2. Voltage
3. Material characteristics
4. Contact resistance

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 14 Question Id : 1514 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Preheating of work piece is essential in welding

1. High speed steel
2. Stainless steel
3. Cast iron
4. Aluminium

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 15 Question Id : 1515 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

An ideal voltage source should have

1. large value of emf
2. small value of emf
3. zero source resistance
4. infinite source resistance

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 16 Question Id : 1516 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which bulbs operates on lowest power

1. Night bulb
2. Neon bulb
3. GLS bulb
4. Torch bulb

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 17 Question Id : 1517 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Electrode is not consumed in the case of

1. TIG welding
2. MIG welding
3. Gas welding
4. Resistance welding

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 18 Question Id : 1518 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

DC generator are installed near the load centres to reduce

1. iron losses
2. line losses
3. sparking
4. corona losses

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 19 Question Id : 1519 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a DC motor, constant torque is produced due to

1. rotor laminations
2. end plates
3. pole shoes
4. commutator

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 20 Question Id : 1520 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not a part of transformer

1. Conservator
2. Buccholz Relay
3. Exciter
4. Breather

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 21 Question Id : 1521 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

An induction motor is

1. self starting with zero torque
2. self starting with high torque
3. self starting with low torque
4. non self starting

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 22 Question Id : 1522 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The term "cogging" is associated with

1. three phase transformer
2. compound generators
3. DC series motor
4. Induction motors

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 23 Question Id : 1523 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The speed of universal motor is generally reduced by using

1. gear trains
2. V- belts
3. brakes
4. chains

Options :

1. ✔ 1
2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 24 Question Id : 1524 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A thermal protection switch can protect against

1. short circuit
2. temperature
3. over load
4. Variable load

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 25 Question Id : 1525 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a bipolar transistor which current is largest

1. collector current
2. base current
3. emitter current
4. base or emitter current

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 26 Question Id : 1526 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The word enhancement mode is associated with

1. tunnel diode
2. MOSFET
3. photodiode
4. varactor diode

Options :

- 1. ✖ 1
- 2. ✔ 2
- 3. ✖ 3
- 4. ✖ 4

Question Number : 27 Question Id : 1527 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following has highest resistivity?

- 1. Mica
- 2. Paraffin
- 3. Air
- 4. Mineral oil

Options :

- 1. ✖ 1
- 2. ✖ 2
- 3. ✔ 3
- 4. ✖ 4

Question Number : 28 Question Id : 1528 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Power diodes are generally

- 1. silicon diodes
- 2. germanium diodes
- 3. carbon diodes
- 4. carbon or germanium diodes

Options :

- 1. ✔ 1
- 2. ✖ 2
- 3. ✖ 3
- 4. ✖ 4

Question Number : 29 Question Id : 1529 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The depletion layer width of Junction

1. decreases with light doping
2. is independent of applied voltage
3. increases under reverse bias
4. increases with heavy doping

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 30 Question Id : 1530 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

For mercury arc rectifiers, the anode is usually made up of

1. aluminium
2. graphite
3. tungsten
4. copper

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 31 Question Id : 1531 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

For effective modulation, the degree of modulation should

1. small
2. never exceed 100%
3. be large
4. always more than 100%

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 32 Question Id : 1532 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of them radiates emission?

1. LED
2. LCD
3. Both LCD and LED
4. Neither LCD nor LED

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 33 Question Id : 1533 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Binary 101010 is equivalent to decimal number

1. 24
2. 42
3. 64
4. 44

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 34 Question Id : 1534 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The number of valence electrons in donor impurity are

1. 1
2. 3
3. 5
4. 7

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 35 Question Id : 1535 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A prismatic beam has uniform

1. Depth
2. Width
3. Strength
4. Cross-section

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 36 Question Id : 1536 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A well graded soil has a coefficient of curvature between

1. 10 to 12
2. 7 to 9
3. 4 to 6
4. 1 to 3

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 37 Question Id : 1537 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

How is the deflection in RC beams controlled as per IS:456?

1. By using large aspect ratio
2. By using small modular ratio
3. By controlling span/depth ratio
4. By moderating water-cement ratio

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 38 Question Id : 1538 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A steel beam supporting loads from the floor slab as well as from wall is termed as

1. Stringer beam
2. Lintel beam
3. Spandrel beam
4. Header beam

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 39 Question Id : 1539 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The dimensions of dynamic viscosity μ are

1. $ML^{-1}T^{-2}$
2. $ML^{-1}T^{-1}$
3. MLT^{-2}
4. $M^{\circ}L^{\circ}T^{\circ}$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 40 Question Id : 15

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Correct : 1.0 Wrong : 0.33

The representative fraction $1/2500$ means that the scale 1 cm is equal to

1. 0.25 m
2. 2.5 m
3. 25 m
4. 2.5 km

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 41 Question Id : 1541 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

CPM is the

1. time oriented technique
2. event oriented technique
3. activity oriented technique
4. target oriented technique

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 42 Question Id : 1542 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following cement has maximum percentage of C_3S

1. Ordinary portland cement
2. Low heat cement
3. Sulphate resisting cement
4. Rapid hardening cement

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 43 Question Id : 1543 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Consistency as applied to cohesive soils is an indicator of its

1. Density
2. Moisture content
3. Shear strength
4. Porosity

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 44 Question Id : 1544 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The needle of a magnetic compass is generally supported on a

1. Bush bearing
2. Ball bearing
3. Needle bearing
4. Jewel bearing

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 45 Question Id : 1545 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Stainless steel resist corrosion due to

1. Carbon
2. Manganese
3. Chromium
4. Sulphur

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 46 Question Id : 1546 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A barometer is used to measure

1. Very low pressure
2. Very High pressure
3. Pressure difference between two points
4. Atmospheric pressure

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 47 Question Id : 1547 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The household energy meter is

- a. indicating instrument
- b. recording instrument
- c. integrating instrument
- d. visible instrument

Options :

1. ✖ a.

2. ✖ b.

3. ✔ c.

4. ✖ d.

Question Number : 48 Question Id : 1548 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Magnetic flux density has the dimensions

- a. $MI^{-1}T^{-2}$
- b. $M^{-1}I^{-2}T^{-2}$
- c. $ML^{-3}T^{-2}$
- d. $MI^{-1}T^{-3}$

Options :

1. ✔ a.

2. ✖ b.

3. ✖ c.

4. ✖ d.

Question Number : 49 Question Id : 1549 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Assertion (A): De sauty's bridge is suitable only for pure capacitor.

Reason (R): Capacitors are mostly perfect.

- a. Both A and R are true and R is correct explanation of A
- b. Both A and R are true but R is not correct explanation of A
- c. A is true R is false
- d. A is false R is true

Options :

1. ✖ a.

2. ✖ b.

3. ✔ c.

4. ✖ d.

Question Number : 50 Question Id : 1550 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A voltmeter using thermocouples measures

- a. RMS value
- b. Peak value
- c. Average value
- d. Peak to peak value

Options :

1. ✔ a.

2. ✖ b.

3. ✖ c.

4. ✖ d.

Question Number : 51 Question Id : 1551 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

To increase Q factor of a coil, the wire should be

- a. Thin
- b. Thick
- c. Long
- d. long and thin

Options :

1. ✖ a.

2. ✔ b.

3. ✖ c.

4. ✖ d.

Question Number : 52 Question Id : 1552 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The undesirable taste and odours caused by dissolved gases may be removed by

- (a) chemical treatment
- (b) aeration
- (c) disinfection
- (d) reverse osmosis

Options :

- 1. ✖ (a)
- 2. ✔ (b)
- 3. ✖ (c)
- 4. ✖ (d)

Question Number : 53 Question Id : 1553 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The biochemical oxygen demand of treated water should be

- (a) nil
- (b) less than 30 mg/l
- (c) less than 150 mg/l
- (d) always more than 9 mg/l

Options :

- 1. ✔ (a)
- 2. ✖ (b)
- 3. ✖ (c)
- 4. ✖ (d)

Question Number : 54 Question Id : 1554 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The function of sluice valve provided in pipe line is

- (a) to reduce the chances of pollution reaching into the pipe
- (b) to reduce the pressure on pipes
- (c) to regulate the flow of water through the pipes
- (d) to allow the air to enter the pipe

Options :

- 1. ✖ (a)
- 2. ✖ (b)
- 3. ✔ (c)
- 4. ✖ (d)

Question Number : 55 Question Id : 1555

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Correct : 1.0 Wrong : 0.33

The source of lead in urban atmosphere is

- a. bursting of cracker in festive season
- b. road traffic
- c. construction works
- d. small scale industries

Options :

- 1. ✗ a.
- 2. ✓ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 56 Question Id : 1556 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The noise level decreases with distance following

- (a) inverse square law
- (b) power law
- (c) directly proportional to intensity square
- (d) inversely proportional to intensity

Options :

- 1. ✓ (a)
- 2. ✗ (b)
- 3. ✗ (c)
- 4. ✗ (d)

Question Number : 57 Question Id : 1557 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The major pollutant that may cause damage to prestigious monument Taj Mahal is

- (a) RSPM along with humidity
- (b) NO_x with HC+Ozone
- (c) SO_x with humidity
- (d) Organic vapours released from Mathura refinery

Options :

- 1. ✗ (a)
- 2. ✗ (b)
- 3. ✓ (c)
- 4. ✗ (d)

Question Number : 58 Question Id : 15

Correct : 1.0 Wrong : 0.33

Microphone is a(an) _____

- (A) Input device (B) Output device
(C) Storage device (D) Both input and output device

Options :

1. ✓ (A)
2. ✗ (B)
3. ✗ (C)
4. ✗ (D)

Question Number : 59 Question Id : 1559 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is a volatile memory?

- (A) Cache memory (B) Hard Disk
(C) DVD (D) CD

Options :

1. ✓ (A)
2. ✗ (B)
3. ✗ (C)
4. ✗ (D)

Question Number : 60 Question Id : 1560 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Dynamic RAM (DRAM) is slower than Static RAM (SRAM) because _____

- (A) DRAM uses flip-flops (B) DRAM is costlier
(C) DRAM requires refreshing (D) DRAM is cheaper

Options :

1. ✗ (A)
2. ✗ (B)
3. ✓ (C)
4. ✗ (D)

Question Number : 61 Question Id : 1561 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

UTF-16 is a(an) _____

- (A) 8-bit fixed-width encoding (B) 8-bit variable-width encoding
(C) 16-bit variable-width encoding (D) 16-bit fixed-width encoding

Options :

1. ✗ (A)
2. ✗ (B)
3. ✓ (C)

4. ✖ (D)

Question Number : 62 Question Id : 1562 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The hexadecimal representation of $(407)_8$ is _____

(A) $(107)_{16}$

(B) $(701)_{16}$

(C) $(017)_{16}$

(D) $(710)_{16}$

Options :

1. ✔ (A)

2. ✖ (B)

3. ✖ (C)

4. ✖ (D)

Question Number : 63 Question Id : 1563 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Considering X and Y as binary variables, the Boolean expression $Y + XY$ is equivalent to

(A) X

(B) 1

(C) 0

(D) Y

Options :

1. ✖ (A)

2. ✖ (B)

3. ✖ (C)

4. ✔ (D)

Question Number : 64 Question Id : 1564 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The 2's complement of the binary number $(11110000)_2$ is

(A) $(00001111)_2$

(B) $(11110000)_2$

(C) $(00010000)_2$

(D) $(10101010)_2$

Options :

1. ✖ (A)

2. ✖ (B)

3. ✔ (C)

4. ✖ (D)

Question Number : 65 Question Id : 1565 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following category of viruses does not replicate themselves?

(A) Worms

(B) Trojan horses

(C) Boot sector viruses

(D) Macro viruses

Options :

1. ✖ (A)
2. ✔ (B)
3. ✖ (C)
4. ✖ (D)

Question Number : 66 Question Id : 1566 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In class 'B' IP addresses, number of network ID bits used to identify the class is _____

- (A) 0 (B) 1
(C) 2 (D) 3

Options :

1. ✖ (A)
2. ✖ (B)
3. ✔ (C)
4. ✖ (D)

Question Number : 67 Question Id : 1567 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following categories of networks has largest geographic area?

- (A) WAN (B) PAN
(C) LAN (D) MAN

Options :

1. ✔ (A)
2. ✖ (B)
3. ✖ (C)
4. ✖ (D)

Question Number : 68 Question Id : 1568 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. The front view and top view of a line both lie above the XY line. The line is located in:

(a) First Quadrant, (b) Second Quadrant, (c) Third Quadrant, (d) fourth Quadrant.

Options :

1. ✖ (a)
2. ✔ (b)
3. ✖ (c)
4. ✖ (d)

Question Number : 69 Question Id : 1569 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If the nominal diameter of a bolt is “D”, then the width of the hexagonal nut across flat surfaces is empirically given as:

(a) D , (b) $1.5 \times D$, (c) $1.5 \times D + 3mm$, (d) $1.5 \times D + 5mm$.

Options :

1. ✖ (a)
2. ✖ (b)
3. ✔ (c)
4. ✖ (d)

Question Number : 70 Question Id : 1570 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A vernier scale is good enough to read in -----after decimal.

(a) One digit, (b) Two digits, (c) Three digits, (d) Four digits.

Options :

1. ✖ (a)
2. ✔ (b)
3. ✖ (c)
4. ✖ (d)

Question Number : 71 Question Id : 1571 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A sectioning plane cuts a cone such that it is inclined to cone axis at an angle other than 90° and it cuts all its generators. The section so cut is.

(a) Rectangular Hyperbola, (b) A Parabola, (c) A Hyperbola, (d) An ellipse.

Options :

1. ✖ (a)
2. ✖ (b)
3. ✖ (c)
4. ✔ (d)

Question Number : 72 Question Id : 1572 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

An isometric projection is a:

(a) 2D view, (b) 3D view, (c) $2\frac{1}{2}$ D view, (d) perspective view.

Options :

1. ✔ (a)
2. ✖ (b)
3. ✖ (c)

4. ✖ (d)

Question Number : 73 Question Id : 1573 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is a unit of momentum?

- (a) N m
- (b) kg m s^{-1}
- (c) kg m s^{-2}
- (d) kg m^{-2}

Options :

- 1. ✖ (a)
- 2. ✔ (b)
- 3. ✖ (c)
- 4. ✖ (d)

Question Number : 74 Question Id : 1574 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A ball is thrown vertically upward with a velocity of 19.6 m/s. The maximum height it attains is

($g = 9.8 \text{ m/s}^2$)

- (a) 4.9 m
- (b) 9.8 m
- (c) 19.6 m
- (d) 39.2 m

Options :

- 1. ✖ (a)
- 2. ✖ (b)
- 3. ✔ (c)
- 4. ✖ (d)

Question Number : 75 Question Id : 1575 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A 10 kg box is placed at a height h above the ground. The potential energy of the box is 980 J. The value of h is ($g = 9.8 \text{ m/s}^2$)

- (a) 10 m
- (b) 20 m
- (c) 98m
- (d) 49m.

Options :

1. ✓ (a)
2. ✗ (b)
3. ✗ (c)
4. ✗ (d)

Question Number : 76 Question Id : 1576 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A source produces sound waves under water. Waves travel through water and some of it is transmitted into air. Which of the following statements about the frequency f and wavelength λ is correct as sound passes from water to air?

- (a) f and λ remain unchanged
- (b) f increases but λ decreases
- (c) f remains unchanged but λ increases
- (d) f remains unchanged but λ decreases.

Options :

1. ✗ (a)
2. ✗ (b)
3. ✗ (c)
4. ✓ (d)

Question Number : 77 Question Id : 1577 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A light ray from air enters and passes through a glass slab. Which of the following statements is true about its speed after it emerges from the block?

- (a) Speed is same as that before it entered glass slab
- (b) Speed is same as that in glass slab
- (c) Speed is less than when in glass slab
- (d) Speed is less than before it entered glass slab.

Options :

1. ✓ (a)
2. ✗ (b)
3. ✗ (c)
4. ✗ (d)

Question Number : 78 Question Id : 1578 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Two resistors A and B are connected in parallel across a 3.0 V battery. The current through B is found to be 0.25 A. When the two resistors are connected in series to the same battery, the voltage across resistor A is found to be 1.0 V. Resistances of A and B are, respectively

- (a) $6\ \Omega, 12\ \Omega$
- (b) $9\ \Omega, 12\ \Omega$
- (c) $3\ \Omega, 6\ \Omega$
- (d) $12\ \Omega, 24\ \Omega$

Options :

- 1. ✓ (a)
- 2. ✗ (b)
- 3. ✗ (c)
- 4. ✗ (d)

Question Number : 79 Question Id : 1579 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which among the following is a displacement reaction?

- a) $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
- b) $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$
- c) $\text{Pb} + \text{CuCl}_2 \rightarrow \text{PbCl}_2 + \text{Cu}$
- d) $\text{C}_2\text{H}_4 + \text{H}_2 \rightarrow \text{C}_2\text{H}_6$

Options :

- 1. ✗ a)
- 2. ✗ b)
- 3. ✓ c)
- 4. ✗ d)

Question Number : 80 Question Id : 1580 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What is the mass of a molecule of nitrogen?

- a) 14 u
- b) 28 u
- c) $14 / 6.023 \times 10^{23}$
- d) $28 / 6.023 \times 10^{23}$

Options :

- 1. ✗ a)
- 2. ✗ b)
- 3. ✗ c)
- 4. ✓ d)

A metal forms an amphoteric oxide on reaction with oxygen. The metal is

- a) Al
- b) Na
- c) Cu
- d) Fe

Options :

- 1. ✓ a)
- 2. ✗ b)
- 3. ✗ c)
- 4. ✗ d)

A hydrocarbon contains one carbon- carbon single bond, one carbon- carbon double bond and one carbon- carbon triple bond. What is its molecular formula?

- a) C₄H₄
- b) C₄H₆
- c) C₄H₈
- d) C₄H₁₀

Options :

- 1. ✓ a)
- 2. ✗ b)
- 3. ✗ c)
- 4. ✗ d)

Which of the following are correct for the reaction



It is

- i) an endothermic reaction
- ii) an exothermic reaction
- iii) a neutralization reaction
- iv) a combination reaction

- a) (i) & (iii)
- b) (ii) & (iii)
- c) (ii) & (iv)
- d) (iii) & (iv)

Options :

- 1. ✗ a)
- 2. ✓ b)
- 3. ✗ c)

4. ✖ d)

Question Number : 84 Question Id : 1584 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The electronic configuration of an element is 2,7. In which group of the modern periodic table is this element placed?

- a) 7 b) 9
- c) 15 d) 1

Options :

- 1. ✖ a)
- 2. ✖ b)
- 3. ✖ c)
- 4. ✔ d)

Question Number : 85 Question Id : 1585 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The hormone secreted by the human ovary is

- a)FSH
- b) LH
- c) Estrogen
- d)Testosterone

Options :

- 1. ✖ a)
- 2. ✖ b)
- 3. ✔ c)
- 4. ✖ d)

Question Number : 86 Question Id : 1586 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Colour blindness is due to a defective gene on

- a) X chromosome
- b) Y chromosome
- c) First pair of Autosomes
- d)Last pair of Autosomes

Options :

- 1. ✔ a)

2. ✖ b)

3. ✖ c)

4. ✖ d)

Question Number : 87 Question Id : 1587 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Mushrooms and Yeast are

a) Lower Plants

b) Seedless plants

c) Fungi

d) Microorganisms

Options :

1. ✖ a)

2. ✖ b)

3. ✔ c)

4. ✖ d)

Question Number : 88 Question Id : 1588 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The end product of Photosynthesis is a

a) Carbohydrate

b) Protein

c) Lipid

d) Steroid

Options :

1. ✔ a)

2. ✖ b)

3. ✖ c)

4. ✖ d)

Question Number : 89 Question Id : 1589 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

When fertilizers as nutrients flow from fields into an adjacent pond, algae bloom and cover the surface but fish in the pond die because

- a) algae use up all the Oxygen
- b) algae die and decompose and poison the pond
- c) fish do not get any nutrients
- d) fish do not get any sunlight

Options :

- 1. ✓ a)
- 2. ✗ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 90 Question Id : 1590 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Select the correct statement

- a) Lizards lay eggs but crocodiles give birth to babies
- b) Birds lay eggs but bats give birth to babies
- c) Both bats and birds lay eggs
- d) Tortoises and crocodiles give birth to babies

Options :

- 1. ✗ a)
- 2. ✓ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 91 Question Id : 1591 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The HCF and LCM of 24 and 36 are respectively

- a. 12,36
- b. 24,72
- c. 12,72
- d. 36,72

Options :

- 1. ✗ a.
- 2. ✗ b.
- 3. ✓ c.
- 4. ✗ d.

Question Number : 92 Question Id : 1592 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The least number which when divided by 15 and 18 leaving remainder 6 in each case is

- a. 84
- b. 96
- c. 264
- d. 276

Options :

- 1. ✗ a.
- 2. ✓ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 93 Question Id : 1593 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If $a:b=5:6$ and $a+b=220$, then a is equal to

- a. 100
- b. 120
- c. 130
- d. 140

Options :

- 1. ✓ a.
- 2. ✗ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 94 Question Id : 1594 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If $4, x, 2x, 32$ are in proportion, then x is equal to

- a. $8\sqrt{2}$
- b. 8
- c. 16
- d. $16\sqrt{2}$

Options :

- 1. ✗ a.
- 2. ✓ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 95 Question Id : 1595 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 15% of a number is 9, then number is

- a. 30
- b. 45
- c. 60
- d. 75

Options :

- 1. ✗ a.
- 2. ✗ b.
- 3. ✓ c.
- 4. ✗ d.

Question Number : 96 Question Id : 1596 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The simple interest on ₹ 300 for 3.5 years, at 6% per annum is

- a. ₹45
- b. ₹50
- c. ₹53
- d. ₹63

Options :

- 1. ✗ a.
- 2. ✗ b.
- 3. ✗ c.
- 4. ✓ d.

Question Number : 97 Question Id : 1597 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Compound interest on ₹ 1000 for 3 years compound annually at 10% per annum is

- a. ₹331
- b. ₹300
- c. ₹1300
- d. ₹1331

Options :

- 1. ✓ a.
- 2. ✗ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 98 Question Id : 1598 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The cost price of an article is ₹ 260. If it is sold at profit of 10% , then selling price is

- a. ₹ 234
- b. ₹ 286
- c. ₹ 334
- d. ₹ 386

Options :

- 1. ✗ a.
- 2. ✓ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 99 Question Id : 1599 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The selling price of an article is ₹ 648. If it was sold at a profit of 8% ,the cost price of the article was

- a. ₹ 500
- b. ₹ 550
- c. ₹ 600
- d. ₹ 630

Options :

- 1. ✗ a.
- 2. ✗ b.
- 3. ✓ c.
- 4. ✗ d.

Question Number : 100 Question Id : 1600 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A shopkeeper mixes 30 kg of wheat which cost him ₹ 16/kg with 20 kg of wheat which cost him ₹ 18/kg. He sells the mixture at ₹ 20/kg. His gain is

- a. ₹ 260
- b. ₹ 220
- c. ₹ 180
- d. ₹ 160

Options :

- 1. ✗ a.
- 2. ✗ b.
- 3. ✗ c.
- 4. ✓ d.

Question Number : 101 Question Id : 1601 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Two vessels A and B, spirit and water are in the ratio 7:2 and 7:4 respectively. The ratio in which these are mixed which contains spirit and water in the ratio 2:1 is

- a. 3:11
- b. 11:3
- c. 2:7
- d. 7:2

Options :

- 1. ✓ a.
- 2. ✗ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 102 Question Id : 1602 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A person cycles at the speed of 36km/h. The time taken by him in seconds, to cover a distance of 1500 m is

- a. 160
- b. 150
- c. 120
- d. 90

Options :

- 1. ✗ a.
- 2. ✓ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 103 Question Id : 1603 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A train is moving at a speed of 72 km/h. In 5 seconds it will cover a distance of

- a. 60m
- b. 80m
- c. 100m
- d. 120m

Options :

- 1. ✗ a.
- 2. ✗ b.
- 3. ✓ c.
- 4. ✗ d.

Question Number : 104 Question Id : 1

Correct : 1.0 Wrong : 0.33

A can do a piece of work in 30 days and B can do same work in 20 days. If they work together, in how many days they can complete the same work?

- a. 10
- b. 12
- c. 15
- d. 16

Options :

- 1. ✖ a.
- 2. ✔ b.
- 3. ✖ c.
- 4. ✖ d.

Question Number : 105 Question Id : 1605 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

P and Q can do a piece work in 15 days, Q and R in 12 days and R and P in 20 days. The number of days required for R to complete the same work is

- a. 60
- b. 50
- c. 30
- d. 20

Options :

- 1. ✖ a.
- 2. ✖ b.
- 3. ✔ c.
- 4. ✖ d.

Question Number : 106 Question Id : 1606 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average of first 5 odd prime numbers is

- a. 5.4
- b. 5.8
- c. 6.8
- d. 7.8

Options :

- 1. ✖ a.
- 2. ✖ b.
- 3. ✖ c.
- 4. ✔ d.

Question Number : 107 Question Id : 1607 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average of 18 observations is 30 and average of 22 observations is 40. The average of all combined observations is

- a. 35.5
- b. 35
- c. 36
- d. 36.5

Options :

- 1. ✓ a.
- 2. ✗ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 108 Question Id : 1608 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The sum of first 20 terms of the AP

5, 9, 13, 17, ..., is

- a. 850
- b. 840
- c. 820
- d. 860

Options :

- 1. ✗ a.
- 2. ✗ b.
- 3. ✗ c.
- 4. ✓ d.

Question Number : 109 Question Id : 1609 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The sum of infinite GP $5, 1, \frac{1}{5}, \frac{1}{5^2}, \dots$ is

- a. $\frac{25}{4}$
- b. $\frac{28}{5}$
- c. $\frac{29}{4}$
- d. $\frac{29}{5}$

Options :

- 1. ✓ a.
- 2. ✗ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 110 Question Id : 1

Correct : 1.0 Wrong : 0.33

A vertical pole is tied with a string of length 20m on the ground. If string makes an angle of 60° with the ground, the length of pole is

- a. 10 m
- b. $10\sqrt{3}$ m
- c. $\frac{10\sqrt{3}}{3}$ m
- d. 20 m

Options :

- 1. ✗ a.
- 2. ✓ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 111 Question Id : 1611 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle of elevation of top of a tower, 30m high, from two points on opposite side of the tower are respectively 60° and 45° . If the point and tower are in same line, the distance between two points is

- a. $40\sqrt{3}$ m
- b. $10(3+\sqrt{3})$ m
- c. $20(\sqrt{3}-1)$ m
- d. $20(3-\sqrt{3})$ m

Options :

- 1. ✗ a.
- 2. ✓ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 112 Question Id : 1612 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If $(x+1)$ is a factor of $x^4-2ax^3+x^2-4$, then a is equal to

- a. -1
- b. 2
- c. 1
- d. -2

Options :

- 1. ✗ a.

2. ✖ b.

3. ✔ c.

4. ✖ d.

Question Number : 113 Question Id : 1613 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

One of the factor of $(5x-7y)^3 - (3y-4x)^3$ is

- a. $(x-10y)$
- b. $(x-4y)$
- c. $(9x+4y)$
- d. $(9x-10y)$

Options :

1. ✖ a.

2. ✖ b.

3. ✖ c.

4. ✔ d.

Question Number : 114 Question Id : 1614 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The value of k for which $3x^2-2x+3k=0$ has equal roots is

- a. $\frac{1}{9}$
- b. 9
- c. $\frac{1}{18}$
- d. 18

Options :

1. ✔ a.

2. ✖ b.

3. ✖ c.

4. ✖ d.

Question Number : 115 Question Id : 1615 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The sum of squares of the roots of the equations $x^2-5x-6=0$ is

- a. 26
- b. 30
- c. 35
- d. 37

Options :

1. ✖ a.

2. ✖ b.

3. ✖ c.

4. ✔ d.

Question Number : 116 Question Id : 1616 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following animals was not represented on seals and terracota art of the Harappan culture

1. Cow

2. Elephant

3. Rhinoceros

4. Tiger

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 117 Question Id : 1617 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A "Forgotten Empire" , written by the renowned historian Robert Sewell is about which of the following Empires

1. Mauryan Empire

2. Kushan Empire

3. Vijaynagar Empire

4. Mughal Empire

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 118 Question Id : 1618 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

During whose Viceroyship did the High Court come into existence at the three presidential cities of Calcutta, Madras and Bombay

1. Warren Hastings
2. Lord Cornwallis
3. John Lawrence
4. Lord Dalhousie

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 119 Question Id : 1619 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The Eastern and Western Ghats meet at the

1. Cardamom Hills
2. Annamalai Hills
3. Nilgiri Hills
4. Palani Hills

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 120 Question Id : 1620 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Match List 1 with List 2 and select the correct answer from the codes given below in the list

List 1(State)

- A. Zoji La Pass
- B. Bara Lacha Pass
- C. Jelep La Pass
- D. Niti Pass

List 2(Emblem)

- 1. Sikkim
- 2. Uttarakhand
- 3. Himachal Pradesh
- 4. Jammu and Kashmir

1.	A- 4	B- 1	C- 2	D- 3
2.	A- 2	B-3	C- 4	D- 1
3.	A- 4	B- 3	C- 1	D-2
4.	A- 2	B- 1	C- 4	D- 3

Options :

- 1. ✖ 1
- 2. ✖ 2
- 3. ✔ 3
- 4. ✖ 4

Question Number : 121 Question Id : 1621 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The Karakoram highway connects which of the following pair of countries

- 1. India-Nepal
- 2. India-China
- 3. India-Pakistan
- 4. China-Pakistan

Options :

- 1. ✖ 1
- 2. ✖ 2
- 3. ✖ 3
- 4. ✔ 4

Question Number : 122 Question Id : 1622 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

On raising the temperature of the medium, velocity of light

- 1. increases
- 2. decreases
- 3. remains the same
- 4. suddenly decreases

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 123 Question Id : 1623 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is a paramagnetic

- 1. nickel
- 2. cobalt
- 3. chromium
- 4. copper

Options :

- 1. ✗ 1
- 2. ✗ 2
- 3. ✓ 3
- 4. ✗ 4

Question Number : 124 Question Id : 1624 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If the length of a simple pendulum increases by 4%, then its time period will be

- 1. increased by 3%
- 2. increased by 4%
- 3. increased by 2%
- 4. increased by 8%

Options :

- 1. ✗ 1
- 2. ✗ 2
- 3. ✓ 3
- 4. ✗ 4

Question Number : 125 Question Id : 1625 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The indian legislature was made bi-cameral for the first time by

1. Indian Council Act 1892
2. Indian Council Act 1909
3. The Government of India Act 1919
4. The Government of India Act 1935

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 126 Question Id : 1626 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Recommendations to the president of india on the specific Union state fiscal relations are made by the-

1. Finance Minister
2. Reserve Bank of india
3. Planning commission
4. Finance Commission

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 127 Question Id : 1627 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Who had estimated National income in India first

1. Dadabhai Naoroji
2. R.C Dutt
3. M.G Ranade
4. W.Hunter

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 128 Question Id : 1628 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Match the Dams and the States in which they are situated

List-1(Dam)

List-2(State)

1. Tungabhadra

1.Kerala

2. Lower bhawani

2.Andhra Pradesh

3. Idukki

3.Tamil Nadu

4. Nagarjuna Sagar

4.Karnataka

1.	A-3	B-2	C- 4	D- 1
2.	A- 2	B- 4	C-3	D- 1
3.	A- 4	B-3	C-1	D-2
4.	A-1	B-4	C- 2	D- 3

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 129 Question Id : 1629 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following was the Chairman of the Committee on Pricing and Taxation of Petroleum Products?

1. Raja j. Chelliah

2. C.Rangrajan

3. Y.V.Reddy

4. Abid Hussain

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 130 Question Id : 1630 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The first Commonwealth Games were held in the year 1930 at

1. London (UK)
2. Sydney(Australia)
3. Hamilton (Canada)
4. Auckland(New Zealand)

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 131 Question Id : 1631 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is currently matched

1. Nehru trophy -Table tennis
2. Holkar trophy-Bridge
3. Ruia trophy-Kabaddi
4. B.C. Roy Trophy-Lawn Tennis

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 132 Question Id : 1632 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The disease Athlete foot is caused by

1. Bacteria
2. Fungi
3. Protozoa
4. Nematod

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 133 Question Id : 1633 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following is not obtain from stem ?

1. Sunhemp
2. Jute
3. Hemp
4. Cotton

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 134 Question Id : 1634 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Plant which grow in saline soil are

1. Xerophytes
2. Hydrophytes
3. Halophytes
4. Succulents

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 135 Question Id : 1635 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What are the type of bonds present in $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

1. Electrovalent and covalent
2. Electrovalent and co-ordinate
3. Electrovalent , covalent, co-ordinate and hydrozen bond
4. Covalent and co-ordinate covalent

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 136 Question Id : 1636 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Match List-I with List -II and select the correct answer using the codes given the Lists

List-I

List-II

A. Blue vitriol

1. Sodium bicarbaonate

B. Epsom salt

2.Sodium hydroxide

C.Baking soda

3.Magnesium sulphate

D. Caustic soda

4. Copper sulphate

(a)	A-3	B- 4	C- 2	D- 1
(b)	A- 4	B- 3	C- 2	D- 1
(c)	A- 3	B- 4	C- 1	D- 2
(d))	A- 4	B- 3	C- 1	D- 2

Options :

1. ✖ (a)
2. ✖ (b)
3. ✖ (c)
4. ✔ (d)

Question Number : 137 Question Id : 1637 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following is not an essential micronutrient for plants?

1. Boron
2. Zinc
3. Sodium
4. Copper

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 138 Question Id : 1638 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A renowned hindi poet who received the Sahitya Akademi award for his work 'Hawa mein hastakshar' passed away on April 1, 2015 is

1. Ajit Kumar
2. Kailash Vajpayi
3. Harishankar Parsai
4. Ravindra Kalia

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 139 Question Id : 1639 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The 99th Constitution Amendment Act was in the news recently. It is related to

1. National Judicial Appointments Commission
2. Right to work
3. Reservation of women in police services
4. Police action in Naxal-prone areas.

Options :

1. ✔ 1
2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 140 Question Id : 1640 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Who has been declared the best actor and the best actress at the 62nd national film awards announced on march 24, 2014 in new delhi?

1. Sanjari Vijay & kangana Ranaut
2. Sanjari Vijay & Baljinder kaur
3. Bobby simhaa & Kangana ranaut
4. Bobby simhaa & Baljinder kaur

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 141 Question Id : 1641 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

B is the brother of A, who is the father of D. C is the brother of D. D and E are sisters. How is B related to E?

- 1) Uncle 2) Brother 3) Father 4) Grandfather

Options :

1. ✔ 1)

2. ✖ 2)

3. ✖ 3)

4. ✖ 4)

Question Number : 142 Question Id : 1642 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The first two numbers on the left of the sign '::' are related in a certain way. The same relationship holds for the second pair of numbers on the right side of the sign '::' of which one is missing. Find the missing one from the alternatives.

4623 : 2814 :: 6531 : ?

- 1) 3546 2) 4813 3) 3268 4) 3462

Options :

1. ✖ 1)

2. ✖ 2)

3. ✖ 3)

4. ✓ 4)

Question Number : 143 Question Id : 1643 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

‘Cat’ is related to ‘Kitten’ in the same way as ‘Lion’ is related to:

- 1) Puppy 2) Cub 3) Lioness 4) Animal

Options :

1. ✗ 1)

2. ✓ 2)

3. ✗ 3)

4. ✗ 4)

Question Number : 144 Question Id : 1644 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Six persons are sitting in a row. F is to the left of E and right of B. There are 2 persons between E and D and 1 person between A and E. If A is at one of the extremes, who is at the other extreme?

- 1) E 2) C 3) B 4) D

Options :

1. ✗ 1)

2. ✗ 2)

3. ✗ 3)

4. ✓ 4)

Question Number : 145 Question Id : 1645 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Arrange the following words in a meaningful logical sequence and choose the appropriate number sequence from the alternatives.

1. Doctor 2. Medicine 3. Hospital 4. Diagnosis 5. Cure 6. Fever

1) 6, 1, 3, 2, 4, 5

2) 5, 2, 4, 3, 1, 6

3) 6, 3, 1, 4, 2, 5

4) 6, 3, 4, 1, 2, 5

Options :

1. ✗ 1)

2. ✗ 2)

3. ✓ 3)

4. ✗ 4)

Question Number : 146 Question Id : 1

Correct : 1.0 Wrong : 0.33

One term in the following number series is wrong. Find out the wrong term.

220, 108, 54, 24, 10, 3

- 1) 108 2) 54 3) 24 4) 10

Options :

1. ✖ 1)
2. ✔ 2)
3. ✖ 3)
4. ✖ 4)

Question Number : 147 Question Id : 1647 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If MOST is coded as 5926 and TRUE is coded as 6814, then SORE will be coded as:

- 1) 2948 2) 4892 3) 9248 4) 2984

Options :

1. ✖ 1)
2. ✖ 2)
3. ✖ 3)
4. ✔ 4)

Question Number : 148 Question Id : 1648 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 'HARMONY' is coded as 'YHANORM', then 'EXPLAIN' would be coded as:

- 1) NEXIPAL 2) LPXENIA 3) NEXIAPL 4) NEIXAPL

Options :

1. ✖ 1)
2. ✖ 2)
3. ✔ 3)
4. ✖ 4)

Question Number : 149 Question Id : 1649 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

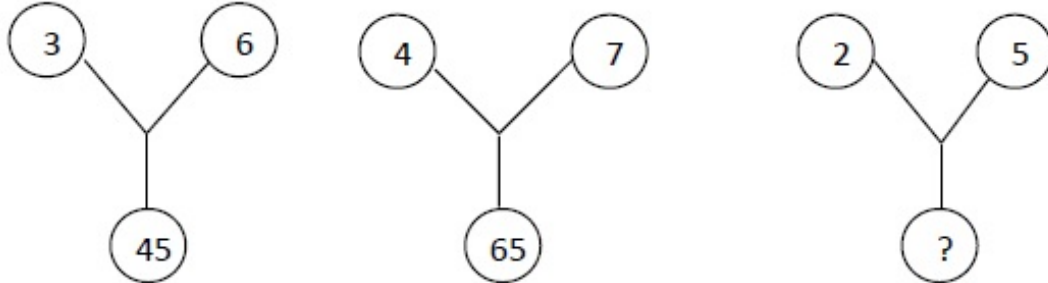
A boy walked Southwards, turned right and walked 3 km. Then he turned left and walked 1 km. If he is 5 km from his starting point, how far did he walk southwards initially?

- 1) 3 km 2) 1 km 3) 4 km 4) 2 km

Options :

1. ✔ 1)
2. ✖ 2)
3. ✖ 3)
4. ✖ 4)

The numbers in the following figures follow a pattern. Which number would replace the question mark?



- 1) 27 2) 29 3) 31 4) 48

Options :

1. ✖ 1)
2. ✔ 2)
3. ✖ 3)
4. ✖ 4)



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