KEAM 2025 April 24 Pharmacy Question Paper

Time Allowed :3 Hours | **Maximum Marks : 600** | **Total Questions :**150

General Instructions

Read the following instructions very carefully and strictly follow them:

- 1. This question paper comprises 150 questions.
- 2. The Paper is divided into three parts- Maths, Physics and Chemistry.
- 3. There are 45 questions in Physics, 30 questions in Chemistry and 75 questions in Mathematics.
- 4. For each correct response, candidates are awarded 4 marks, and for each incorrect response, 1 mark is deducted.

| 1. Which of the fol | lowing is non-aromatic? |
|---------------------|-------------------------|
| (A) cyclohexene | |
| (B) benzene | |

2. The correct order of boiling point:

CH₃-CH₂-CH₂-CH₂-NH₂, CH₃-CH₂-NH-CH₂-CH₃, CH₃-CH₂-N(CH₃)₂

$$(1) CH_3-CH_2-CH_2-CH_2-NH_2 > CH_3-CH_2-NH-CH_2-CH_3 > CH_3-CH_2-N(CH_3)_2$$

$$(2) CH_3-CH_2-NH-CH_2-CH_3 > CH_3-CH_2-CH_2-CH_2-NH_2 > CH_3-CH_2-N(CH_3)_2$$

$$(3) CH_3-CH_2-N(CH_3)_2 > CH_3-CH_2-CH_2-CH_2-NH_2 > CH_3-CH_2-NH-CH_2-CH_3$$

$$(4) CH_3-CH_2-N(CH_3)_2 > CH_3-CH_2-NH-CH_2-CH_3 > CH_3-CH_2-CH_2-NH_2$$

3. Which of the following is a non-polar molecule?

(A) CO₂

(C) naphthalene

- (B) H₂O
- (C) CH₃Cl

4. Which among the following shows -R effect?

- (A) NO₂
- (B) NH₂
- (C) -NHCOCH₃
- (D) -OCH₃

5. Which one of the series of hydrogen spectrum is in the visible region?

- (A) Lyman series (UV)
- (B) Balmer series (Visible)
- (C) Paschen series (IR)
- (D) P-fund series

6. In the reaction $3Mg + N_2 \rightarrow Mg_3N_2$, the oxidation number of Mg changes is:

| $(A) \ 0 \rightarrow +3$ | |
|---|--------|
| $(B)\ 0 \to \text{+}6$ | |
| (C) $0 \rightarrow +2$ | |
| 7. Which of the following is an extensive property? | |
| (A) Density | |
| (B) Volume | |
| (C) Heat capacity | |
| 8. Choose the incorrect statement: (a) Actinoids are least reactive. (b) Does not react v | ——with |
| HCl. (c) Does not react with HNO ₃ . | |
| 9. Which is a heterocyclic compound? | |
| (A) Pyridine | |
| (B) Benzene | |
| (C) Toluene | |
| (D) Cyclohexane | |
| 10. Chloro benzene and acetyl chloride react with anhydrous AlCl ₃ , to form | |
| 4-chloroacetophenone. The reaction is an example of: | |
| (a) Nucleophilic substitution | |
| (b) Nucleophilic addition | |
| (c) Electrophilic substitution | |
| 11. Which of the following have a complete octet? | |
| (A) BeCl ₂ | |
| (B) BF_3 | |
| (C) SnCl ₂ | |
| (D) LiCl | |

| 12. Acetone can be converted to 2-methylpropan-2-ol using: | |
|--|---------------|
| A) Grignard reagent B) Sodium hydride | |
| | |
| (D) Sodium borohydride | |
| 13. N_2 exerts partial pressure of 7.698 bar in 1L water at 298K. Wha | t is the mole |
| fraction of N_2 in the solution? Given that $N_2 = 76.48K$ bar. | |
| (A) 0.1 | |
| (B) 0.2 | |
| (C) 0.3 | |
| (D) 0.4 | |
| 14. Which of the following is diamagnetic? | |
| (A) $[MnCl_6]^{3-}$ | |
| (B) $[Fe(CN)_6]^{3-}$ | |
| (C) $[\text{Co}(\text{C}_2\text{O}_4)_3]^{3-}$ | |
| (D) $[FeF_6]^{3-}$ | |
| 15. KMnO ₄ on heating at 513K produces: | |
| (A) K_2MnO_4 | |
| (B) MnO_2 | |
| (C) Mn_2O_3 | |
| (D) MnO | |
| 16. IUPAC name of the compound [Cr(H ₂ O) ₃ (NH ₃) ₃]Cl ₃ | |
| (A) Chromium(III) ammine aqua chloride | |

(B) Chromium(III) ammine chloride aqua

(C) Chromium(III) hexaaquachloride

| (D) Chromium(III) hexaamminetrichloride | |
|--|--|
| 17. Square planar compound is: | |
| (A) CCl_4 | |
| (B) CS_2 | |
| (C) XeF ₄ | |
| 18. A compound formed by reacting CoCl ₂ with excess NH ₃ gives 1 mol of AgCl with | |
| AgNO ₃ . Form the compound: | |
| (A) $[Co(NH_3)_6]Cl_2$ | |
| (B) $[Co(NH_3)_4Cl_2]Cl$ | |
| (C) $[Co(NH_3)_5Cl_2]Cl$ | |
| (D) $[Co(NH_3)_3Cl_3]$ | |
| 19. The element that has the highest melting point in the 3d series is: | |
| (A) V | |
| (B) Cr | |
| (C) Mn | |
| (D) W | |
| 20. The reagent for Etard's reaction is: | |
| (A) CH ₃ COCl | |
| (B) AlCl ₃ | |
| (C) CrO_3 | |
| (D) NaOCl | |
| 21. Which element in the 3d series can form dihalides? | |
| (A) Sc | |
| (B) Ti | |
| (C) Mn | |
| | |

(D) Fe

22. A body is rotated about a fixed axis. Which of the following is correct about angular velocity?

- (A) Angular velocity is constant for a rotating body.
- (B) Angular velocity is proportional to the moment of inertia.
- (C) Angular velocity depends on the angular acceleration.
- (D) Angular velocity is independent of the axis of rotation.

23. Express the final answer to the proper number of significant figures:

$$18.0 + 11.515 + 13.2 = \dots$$

- (A) 42.715
- (B) 42.7
- (C) 42.72
- (D) 42.7150

24. If a p-n junction diode is forward biased, then:

- (A) There will be less resistance
- (B) Current is due to minority charge carriers only
- (C) Barrier potential increases
- (D) Width of depletion region increases
- (E) Current is of the order of 10^{-6} A

26. Young's modulus and shear modulus are applicable for:

- (A) Gases
- (B) Solids
- (C) Solid and Liquid
- (D) Liquid and Gas

| 27. Find the magnetic field inside a solenoid having number of turns 7000, length 1m, | |
|--|--|
| and current 1 A. | |
| (A) $4\pi \times 10^{-7} \text{ T}$ | |
| (B) $4\pi \times 10^{-5} \text{ T}$ | |
| (C) $2 \times 10^{-3} \text{ T}$ | |
| (D) $1 \times 10^{-3} \text{ T}$ | |
| 28. The force between two point charges separated by a distance d is F . If one charge | |
| moved away by a distance d , then the new force is: | |
| (A) $F/4$ | |
| (B) 4F | |
| (C) $F/2$ | |
| (D) $F/2$ | |
| 29. Specific heat capacity of diatomic gas at constant volume: | |
| (A) $\frac{5}{2}R$ | |
| (B) R | |
| (C) $\frac{3}{2}R$ | |
| (D) $\frac{7}{2}R$ | |
| 30. Find the frequency of the waveform shown in the graph. | |
| (A) 0.5 Hz | |
| (B) 1 Hz | |
| (C) 2 Hz | |
| (D) 5 Hz | |
| 31. Find the magnification of a lens having focal length 5 cm (Least distance of distinct | |
| vision = 25 cm). | |
| (A) 0.5 | |

(B) 1

| (C) 2 | |
|-------------------------------|---|
| (D) 3 | |
| 32. If T and n are | e surface tension and coefficient of viscosity, if temperature increases, |
| then: | |
| (A) Surface tensio | on decreases, viscosity decreases |
| (B) Surface tension | n decreases, viscosity increases |
| (C) Surface tension | n increases, viscosity decreases |
| (D) Surface tensio | on increases, viscosity increases |
| 33. Moment of in | ertia of a disc about the axis passing through the center and |
| perpendicular to | the plane is I_1 . What is the moment of inertia about its diameter? |
| (A) $I_1/2$ | |
| (B) I_1 | |
| (C) $I_1/4$ | |
| (D) $2I_1$ | |
| 34. A wire of leng | gth 1m is clamped at half of its length. If the fundamental frequency is |
| 3kHz, then find the | he velocity. |
| (A) 6 m/s | |
| (B) 12 m/s | |
| (C) 3 m/s | |
| (D) 1.5 m/s | |
| 35. Forces acting | on 2 bodies of masses 2kg and 3kg are same. What is the ratio of their |
| acceleration? | |
| (A) 3:2 | |
| (B) 2:3 | |
| (C) 1:1 | |
| (D) 1:2 | |
| | 0 |
| | 8 |

| 36. Monochromatic light pass | sing through a prism doesn't produce: |
|----------------------------------|---|
| (A) Spectrum | |
| (B) Diffraction | |
| (C) Refraction | |
| (D) Dispersion | |
| 37. What is the speed of water | r flowing through a hole located at a depth h from the |
| surface of water in a tank? | |
| (A) $\sqrt{2gh}$ | |
| (B) \sqrt{gh} | |
| (C) 2gh | |
| (D) <i>gh</i> | |
| 38. Energy dissipated per uni | t time by a wire of resistance $2R$ connected to a 2V battery |
| (A) $\frac{V^2}{2R}$ | |
| (B) $\frac{V^2}{R}$ | |
| (C) $\frac{V^2}{4R}$ | |
| (D) $\frac{V^2}{R} \times 2$ | |
| 39. Area under F and t graph | ı is? |
| (A) Work Done | |
| (B) Kinetic Energy | |
| (C) Power | |
| (D) Energy | |

- (A) Microwaves
- (B) Ultraviolet

(D) Visible Light

| 41. A ball of mass 10g is dropped from a height of 50m. If 30J energy is lost due to air |
|--|
| resistance, then what is the velocity of the ball when it hits the ground? |

- (A) $20 \, \text{m/s}$
- (B) $25 \,\text{m/s}$
- (C) 30 m/s
- (D) $35 \,\text{m/s}$

42. A lift having mass 1000kg moves upward against a frictional force of 2000N. Power given by motor is 36000W. What is the velocity of the lift?

- (A) 2 m/s
- (B) 3 m/s
- (C) 5 m/s
- (D) 6 m/s

43. If the threshold wavelength of a metal is in the green light region, then which of the following radiation cannot cause emission of electrons from metal?

- (A) Blue
- (B) Indigo
- (C) Violet
- (D) UV
- (E) Orange

44. Relation between C_p , C_v and R

$$(A) C_p - C_v = R$$

$$(B) C_p + C_v = R$$

(C)
$$C_p \times C_v = R$$

(D)
$$C_p/C_v = R$$

| 45. Product of uncertainty | in position (Δx) and uncertainty in velocity (Δv) has unit: |
|--|--|
| (A) $m \cdot s$ | |
| $(\mathbf{B}) \ m^2 \cdot s^{-1}$ | |
| (C) $m \cdot s^{-1}$ | |
| (D) $m^2 \cdot s^2$ | |
| 46. A coil of length l and ar | rea of cross-section A has resistance R . If the length is |
| increased to 3 times and are | rea decreases to $A/3$, then the new resistance is: |
| (A) 9R | |
| (B) 3 <i>R</i> | |
| (C) $R/3$ | |
| (D) R/9 | |
| | and moves with an acceleration of 2 m/s^2 and comes to res ² . Find the distance travelled? |
| (A) 20 m | |
| (B) 25 m | |
| (C) 30 m | |
| (D) 40 m | |
| 48. Highest limiting conduc | ctance at 298 K is: |
| $(1) Ca^{2+}$ | |
| $(2) Cs^+$ | |
| $(3) K^+$ | |
| (4) Na ⁺ | |
| 49. A subatomic particle of | f mass 2.2×10^{-28} kg. Velocity = 3×10^5 ms ⁻¹ . De Broglie |
| wavelength? | |
| $(1) 4.0 \times 10^{-10} \mathrm{m}$ | |

| (2) 5.0×10^{-10} m | |
|--------------------------------------|---|
| (3) $6.0 \times 10^{-10} \mathrm{m}$ | |
| (4) $7.0 \times 10^{-10} \mathrm{m}$ | |
| 50. Metal in Wilkinson's c | eatalyst? |
| (1) Fe | |
| (2) Ni | |
| (3) Ru | |
| (4) Rh | |
| 51. Energy of H atom in g | round state is 13.6 eV. No of spectral lines emitted by 'H' |
| atom when a photon of en | ergy 12.75 eV is received? |
| (A) 2 | |
| (B) 3 | |
| (C) 4 | |
| (D) 5 | |
| 52. Which shows +6 oxida | tion state in fluorides? |
| (A) Mo | |
| (B) Fe | |
| (C) Cr | |
| (D) Mn | |
| 53. Properties of canal ray | ys: |
| (A) They are positively char | rged. |
| (B) They are negatively cha | rged. |
| (C) They travel in straight li | ines. |
| (D) They have no mass. | |

54. The carboxylic acid used widely in the leather industry is?

- (A) Acetic acid
- (B) Formic acid
- (C) Butyric acid
- (D) Propionic acid

55. Which has intramolecular hydrogen bonding?

Ortho nitrophenol, Para nitrophenol

- (A) Ortho nitrophenol
- (B) Para nitrophenol
- (C) Both
- (D) None

56. Preparation of $KMnO_4$ from Mg(II):

- (A) Manganese oxide
- (B) Potassium permanganate
- (C) Manganese dioxide
- (D) Potassium manganese oxide

57. Spin free complex?

- (A) Fe³⁺
- (B) Co²⁺
- (C) Ni²⁺
- (D) Cu²⁺

58. Order of acidity CH=CH, CH-C=CH, CH-C=C-CH?

- (A) CH=CH > CH-C=CH > CH-C=C-CH
- (B) CH-C=CH > CH=CH > CH-C=C-CH
- (C) CH-C=C-CH > CH-C=CH > CH=CH
- (D) CH-C=CH > CH-C=C-CH > CH=CH

| 59. <i>A</i> | Amount of charge needed to dissociate MgCl? |
|---------------------|---|
| (A) | 2 moles |

- (B) 1 mole
- (-) -----
- (C) 3 moles
- (D) 4 moles

60. Aryl halides react with Na in dry ether gives diphenyls. Name of the reaction is:

- (A) Wurtz reaction
- (B) Sandmeyer reaction
- (C) Finkelstein reaction
- (D) Reimer-Tiemann reaction

61. ΔH and ΔS value of a reaction which is non-spontaneous at high T and spontaneous at low T is:

- (A) $\Delta H > 0, \Delta S < 0$
- (B) $\Delta H < 0, \Delta S > 0$
- (C) $\Delta H > 0, \Delta S > 0$
- (D) $\Delta H < 0, \Delta S < 0$

62. The amount of NaOH required to neutralize 9.8g H_2SO_4 is:

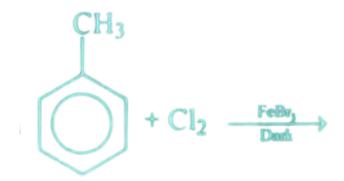
- (A) 1 mol
- (B) 0.1 mol
- (C) 2 mol
- (D) 0.5 mol

63. Phenol can be converted into benzene by treating with:

- (A) Zn dust
- (B) Na-Hg
- (C) LiAlH $_4$
- (D) NaBH₄

| 64. Acetanilide is prepared by reacting ——-and—— | | | | | | |
|--|--|--|--|--|--|--|
| (A) Aniline and acetic a | cid | | | | | |
| (B) Aniline and acetic anhydride | | | | | | |
| (C) Acetone and aniline | | | | | | |
| (D) Aniline and acetic chloride | | | | | | |
| 65. Matrix match: Mat | ch the items in the list with the appropriate compounds. | | | | | |
| Matrix match | | | | | | |
| i) Non reducing disacch | aride a) Fructose | | | | | |
| ii) Reducing disaccharid | le b) Glucose | | | | | |
| iii) Aldohexose | c) Sucrose | | | | | |
| iv) Ketohexose | d) Lactose | | | | | |
| v) Polysaccharide | e) Maltose | | | | | |
| 64. Which of the follow | ving shows -R effect? | | | | | |
| (A) $-CN$ | | | | | | |
| $(B) - OCOCH_3$ | | | | | | |
| (C) $-OCH_3$ | | | | | | |
| (D) -Cl ⁻ | | | | | | |
| (E) –OH | | | | | | |
| 65. Which of the follow | ving is more soluble in water at 298 K? | | | | | |
| (A) HCHO | | | | | | |
| (B) Vinylchloride | | | | | | |
| (C) Argon | | | | | | |
| (D) CO_2 | | | | | | |
| (E) None of the above | | | | | | |

66. Identify the product of the reaction:



- (A) 1-chloro-2-methylbenzene
- (B) 1-chloro-3-methylbenzene
- (C) 1-chloro-4-methylbenzene
- (D) 2-chloro-1,4-dimethylbenzene

67. Which of the following has the smallest ionic radius?

- (A) Sc³
- (B) Ti³
- (C) V³
- (D) Cr³
- (E) Mn³

68. Which of the following amino acids are synthesized in our body?

- (A) Proline
- (B) Valine
- (C) Histidine
- (D) Arginine
- (E) Leucine

69. Which of the following has an expanded octet?

 $(A) NH_3$

| $(B) H_2SO_4$ | |
|---|------------|
| (C) SF ₄ | |
| (D) BeCl ₂ | |
| 70. IUPAC name of C_6H_14 is: | |
| (A) Hexane | |
| (B) Cyclohexane | |
| (C) Heptane | |
| (D) Octane | |
| 71. Name of the following reaction: | |
| $Benzaldehyde + Acetophenone \rightarrow Benzalacetophenone$ | |
| (A) Aldol Condensation | |
| (B) Friedel-Crafts Acylation | |
| (C) Claisen Condensation | |
| (D) Benzoin Condensation | |
| 72. The pKa value of a 0.1 M solution of a weak acid HA with p | oH = 4 is: |
| (A) 4.5 | |
| (B) 5 | |
| (C) 3 | |
| (D) 3.5 | |
| 73. Aspirin is also called: | |
| | |
| (A) Methylsalicylate | |
| (A) Methylsalicylate(B) Ethyl salicylate | |
| | |

| (A) Work done in uniform circular motion is zero | | | | |
|---|--------|--|--|--|
| (B) Work done in stretching a spring is positive | | | | |
| (C) Work done on a freely falling body is positive | | | | |
| (D) Work done depends on time taken | | | | |
| 75. A shell in projectile motion explodes while in motion, what is the trajectory | of the | | | |
| center of the fragments? | | | | |
| (A) A straight line | | | | |
| (B) A circle | | | | |
| (C) A parabola | | | | |
| (D) A hyperbola | | | | |
| 76. Which of the following is true in an SHM? | | | | |
| (A) PE is maximum at $x = 0$ | | | | |
| (B) KE is maximum at $x = 0$ | | | | |
| (C) PE is minimum at $x = A$ | | | | |
| (D) KE is minimum at $x = 0$ | | | | |
| 77. When blue light is incident on metal surface, photoelectrons are emitted. W | hen | | | |
| green light is incident, no photoelectrons are emitted. What is the number of | | | | |
| photoelectrons emitted when yellow light is incident? | | | | |
| (A) Zero | | | | |
| (B) Equal to the number for blue light | | | | |
| (C) Less than for blue light | | | | |
| (D) Greater than for blue light | | | | |
| 78. What is the ratio of gyration of ring and disc? | | | | |
| (A) 1:2 | | | | |
| | | | | |
| (B) 1:4 | | | | |

(D) 1:1

(D) Helical path

| 79. When a body is dropped from height H, the time taken to reach the ground is T. What is the time taken to reach height H/2 from the ground? | | | | |
|--|-----------------------------|--|--|--|
| | | | | |
| (B) $\frac{T}{\sqrt{2}}$ | | | | |
| (C) $\sqrt{2}T$ | | | | |
| (D) $\frac{T}{4}$ | | | | |
| 80. An equiconvex lens of power P is cut perpendicular to its p | rincipal axis, into 2 equal | | | |
| parts, power of each part? | | | | |
| (A) $P/2$ | | | | |
| (B) 2 <i>P</i> | | | | |
| (C) <i>P</i> | | | | |
| (D) Zero | | | | |
| 81. What is the angle between the current and the magnetic fie | eld if a conductor | | | |
| carrying 2A current placed in a magnetic field of 4T experience | es a force of 10N? | | | |
| (A) 90° | | | | |
| (B) 45° | | | | |
| (C) 30° | | | | |
| (D) 60° | | | | |
| 82. What is the path followed by a charge entering a uniform n | nagnetic field with its | | | |
| initial velocity along the direction of the magnetic field? | | | | |
| (A) Circular path | | | | |
| (B) Parabolic path | | | | |
| (C) Straight line | | | | |

83. Find the pressure on an air bubble of radius r at a height h from the surface of the water.

- (A) $\frac{4T}{r}$
- (B) $\frac{2T}{r}$
- (C) $\frac{T}{r}$
- (D) $\frac{8T}{r}$

84. What is the work done to stretch a string?

- (A) $\frac{1}{2} \times load \times strain$
- (B) load × strain
- (C) $Y \times \text{strain}$
- (D) $\frac{1}{2} \times Y \times \text{strain}$

85. Three forces are acting on a particle in which F_1 and F_2 are perpendicular. If F_1 is removed, find the acceleration of the particle.

- (A) $\frac{F_2}{m}$
- (B) $\frac{F_1}{m}$
- (C) $\frac{F_1+F_2}{m}$ (D) $\sqrt{\left(\frac{F_1}{m}\right)^2 + \left(\frac{F_2}{m}\right)^2}$

86. Acceleration of the freely falling metal rod in a cycling ring?

- (A) *g*
- **(B)** 2*g*
- **(C)** 0
- (D) g/2

87. The ratio of frequency of the 3rd mode of vibration for the closed organ pipe and the open pipe of length L?

- (A) 1:2
- (B) 2:1

| (C) 1:1 | |
|--|--|
| (D) 3:2 | |
| 88. To have the same RMS value as that | of hydrogen at 30K, what will be the |
| temperature of the oxygen molecule? | |
| (A) 60K | |
| (B) 90K | |
| (C) 180K | |
| (D) 45K | |
| 89. If $\frac{C_p}{C_v}$ is unity for a process, $PV^{\gamma}=\mathbf{co}$ | onstant, then the process is: |
| (A) Adiabatic | |
| (B) Isothermal | |
| (C) Isobaric | |
| (D) Isochoric | |
| 90. If a bar magnet is doped into a circu | lar ring placed horizontally, then what change |
| will happen? | |
| (A) Magnetic field increases in the ring | |
| (B) Magnetic field decreases in the ring | |
| (C) No effect on magnetic field | |
| (D) Magnetic field becomes zero | |
| 91. If fringe width obtained in a YDSE i | s 1.3mm. If the whole system is dipped in a |
| liquid of refractive index 1.3, then the ne | ew fringe width will be: |
| (A) 1.3mm | |
| (B) 1mm | |
| (C) 1.6mm | |
| (e) 1.0mm | |

| 92. Band gap energy of Si is: | | | | |
|---|---|--|--|--|
| (A) 0.8 eV | | | | |
| (B) 1.1 eV | | | | |
| (C) 2.3 eV | | | | |
| (D) 3.5 eV | | | | |
| 93. Which of the follo | owing is incorrect? | | | |
| (A) Current is a scalar | quantity | | | |
| (B) Current density is | a vector quantity | | | |
| (C) Conductivity is the reciprocal of resistivity | | | | |
| (D) Ohm's law asserts | s that the graph plotted I vs V is a straight line | | | |
| 94. If $B = 400\sqrt{2}\sin(a)$ | $\omega t - kx)$, find the peak value of the magnetic field of the | | | |
| electromagnetic wave | e . | | | |
| (A) 400 T | | | | |
| (B) 200 T | | | | |
| (C) 400 Gauss | | | | |
| (D) 200 Gauss | | | | |
| 95. 3 capacitors of ca | apacitance $12\mu { m F}$ each is connected in series. If the voltage is 12V, | | | |
| what charge is draw | n from the cell? | | | |
| (A) 12μ C | | | | |
| (B) 36μC | | | | |
| (C) 4μC | | | | |
| (D) 24μ C | | | | |

96. The power dissipated by a particle with constant force and constant acceleration is proportional to the:

- (A) Load \times Strain
- (B) Load

| (C) $Y \times Strain$ | |
|--|--|
| (D) Strain | |
| 97. The dimension of $\lambda \times t$ (decay constant λ multiplied by time t) is: | |
| (A)[T] | |
| (B) $[M^{-1}T^{-1}]$ | |
| $(\mathbf{C})[T^2]$ | |
| (D) [1] | |
| 98. Arrange the following in the order of conductivity: Na, Ag, Fe, Cu | |
| (A) Ag > Cu > Fe > Na | |
| (B) $Na > Cu > Ag > Fe$ | |
| (C) $Fe > Ag > Na > Cu$ | |
| (D) $Cu > Na > Fe > Ag$ | |
| 99. Find pH of the solution if $[H^+] = 2 \times 10^{-4}$ mol/L | |
| (A) 3.5 | |
| (B) 4.5 | |
| (C) 5.5 | |
| (D) 6.5 | |
| 100. Which among the following acts as a Lewis acid? | |
| (A) AlCl | |
| D) NH | |

- (B) NH
- (C) OH
- (D) HO

101. What is the Reimer Tieman reaction?

102. What is Layer's test?