

AIIMS BSc Nursing Sample Paper 2025

Q1. A voltmeter with a resistance of $1800\ \Omega$ can be used to measure the potential difference across a $200\ \Omega$ resistor. Equivalent resistance of circuit will be :

- (a) $180\ \Omega$
- (b) $140\ \Omega$
- (c) $160\ \Omega$
- (d) $100\ \Omega$

Ans.(c)

Q2. Ram measures the period of oscillation of a simple pendulum. In successive measurements, the readings are 2.63 s, 2.56 s, 2.42 s, 2.71 s and 2.80 s. The mean absolute error and percentage error are respectively :

- (a) 0.11 s and 4%
- (b) 0.068 s and 4%
- (c) 0.068 s and 2.6%
- (d) 0.11 s and 2.6%

Ans.(a)

Q3. A 45 kW motor winds a cable around a drum while lifting a 2700 kg mass to a height of 6 m in 3 sec. The power lost to the friction (in Kw) is : (take $g = 10\ \text{m/s}^2$)

- (a) 50
- (b) 0.5
- (c) 0.8
- (d) 6.6

Ans.(c)

Q4. An insect trapped in a circular groove with a radius of 12 cm continuously moves along the groove and complete 7 revolutions in 100 s. Regarding the motion of the insect, consider the following statements :

(i) The linear speed is 5.3 cm/s. (ii) Acceleration is not a constant vector. (iii) The magnitude of acceleration is constant $2.3\ \text{cm/s}^2$.

Choose the correct option :

- (a) Only (i) and (ii) are correct.
- (b) Only (ii) and (iii) are correct.
- (c) Only (i) and (iii) are correct.
- (d) All (i), (ii) and (iii) are correct.

Ans.(d)

Q5. A uniform ring of mass 'm' is lying at a distance $\sqrt{3}R$ from the center of the sphere of mass 'M' just over the sphere (where 'R' is the radius of the ring as well as of the sphere), then the magnitude of the gravitational force between them is :

- (a) $\sqrt{3}\ \text{GMm} / R^2$
- (b) $\sqrt{3}\ \text{GMm} / 8R^2$
- (c) $\text{GMm} / 8R^2$
- (d) $\text{GMm} / 2R^2$

Ans.(b)

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Q6. Scalar quantity is:

- (a) Velocity
- (b) Displacement
- (c) Temperature
- (d) Momentum

Ans.(c)

Q7. Consider the following statements :

(i} Any dc-generator can also function as a simple dc-motor. (ii} The induced electromotive force produced in an AC Generator reverses direction twice per period.

Choose the correct option :

- (a) Only (i} is correct.
- (b) Only (ii} is correct.
- (c) Both (i} and (ii} are incorrect.
- (d) Both (i} and (ii} are correct.

Ans.(d)

Q8. A balloon operates at an altitude where the air density is 0.90 kg/m^3 . At this altitude, the balloon has a volume of 20 m^3 and is filled with helium ($\rho_{\text{He}} = 0.178 \text{ kg/m}^3$). If the weight of the balloon bag is 88 N , the load (in N) it can support at this level is :

- (a) 34.9
- (b) 176
- (c) 53.1
- (d) 141.9

Ans.(a)

Q9. Two resistances of 10 ohm and 30 ohm are connected in parallel in a circuit. The equivalent resistance of the circuit will be:

- (a) 20 ohm
- (b) 40 ohm
- (c) 15 ohm
- (d) 7.5 ohm

Ans.(d)

Q10. A magnetron in a microwave oven emits electromagnetic wave with frequency $f = 2450 \text{ MHz}$. The magnitude of the magnetic field required for electron to move in circular path with this frequency is :

- (a) 0.0438 T
- (b) 0.0270 T
- (c) 0.0877 T
- (d) 0.05415 T

Ans.(a)

Q11. Out of the following relation, which is not a solution of the one-dimensional wave equation ?

- (a) $y = x^2 + v^2t^2$
- (b) $y = x^2 - v^2t^2$
- (c) $y = (x + vt)^2$
- (d) $y = (x - vt)^2$

Ans.(a)

Q12. A wave of frequency 500 Hz has a phase velocity of 360 m/s. The phase difference between two displacements at a certain point at a time 10^{-3} sec apart is :

- (a) 2π
- (b) $\pi/2$
- (c) $\pi/3$
- (d) π

Ans.(d)

Q13. An electric bulb is rated 220 V and 100 W. When it is operated on 110 V, the power consumed will be :

- (a) 100 W
- (b) 75 W
- (c) 50 W
- (d) 25 W

Ans.(d)

Q14. Vijay is unable to focus on objects closer than 2.5 m from his eyes. Approximately what refractive power should his corrective lens have ?

- (a) 2.8 D
- (b) 3.6 D
- (c) 3.2 D
- (d) 2.5 D

Ans.(d)

Q15. A 50 N sled rests on a horizontal surface. A horizontal pull of 10 N is required just to start the sled moving. After motion is started, only a 5 N force is needed to move the sled with a constant velocity. The coefficient of static and kinetic friction are respectively :

- (a) 0.10, 0.20
- (b) 0.20, 0.10
- (c) 0.10, 0.15
- (d) 0.15, 0.20

Ans.(b)

Q16. A 200 N block rests on a frictionless inclined plane of angle of inclination 30° . A cord attached to the block passes over a frictionless pulley at the top of the plane is attached to a second block. If the system is in equilibrium, then the weight of second block (in N) approximately is :

- (a) 100
- (b) 86.6
- (c) 173
- (d) 115.5

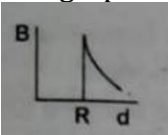
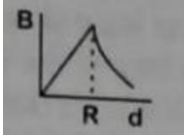
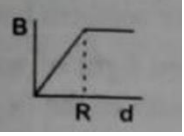
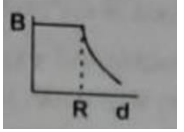
Ans.(a)

Q17. The minimum possible temperature is:

- (a) 0°C
- (b) 0°F
- (c) -273 K
- (d) -273°C

Ans.(d)

Q18. Consider a solid cylindrical wire of radius R carrying a constant current. How does the magnitude of the magnetic field change as we move from the centre of the wire to points outside it? Choose the correct graphical representation.

- (a) 
- (b) 
- (c) 
- (d) 

Ans.(b)

Q19. A body weighs 200 N on the surface of the Earth. How much will it weigh halfway down to the centre of the Earth?

- (a) 200 N
 (b) 250 N
 (c) 100 N
 (d) 150 N

Ans.(c)

Q20. A force $F = 20 + 10y$ acts on a particle in the y -direction, where F is in newtons and y is in meters. The work done by this force in moving the particle from $y = 0$ to $y = 1$ m is:

- (a) 5 J
 (b) 25 J
 (c) 20 J
 (d) 30 J

Ans.(b)

Q21. The unit of thermal conductivity is:

- (a) $\text{J m}^{-1} \text{K}^{-1}$
 (b) W m K^{-1}
 (c) $\text{W m}^{-1} \text{K}^{-1}$
 (d) J m K^{-1}

Ans.(c)

Q22. The work done to raise a mass m from the surface of the earth to a height h , which is equal to the radius of the earth, is:

- (a) $2 mgR$
 (b) $\frac{1}{2} mgR$
 (c) $\frac{3}{2} mgR$
 (d) mgR

Ans.(b)

Q23. Heating a gas in a sealed container primarily results in which of the following effects?

- (a) Increase in its kinetic energy
- (b) Decrease in its pressure
- (c) Decrease in intermolecular distance
- (d) Increase in its mass

Ans.(a)

Q24. In an electrical circuit, which device automatically stops the flow of current during overload or short circuit conditions?

- (a) Inductor
- (b) Switch
- (c) Fuse
- (d) Conductor

Ans.(c)

Q25. The critical angle for a pair of media is defined as the angle of incidence at which the angle of refraction becomes:

- (a) 0°
- (b) Equal to angle of incidence
- (c) 90°
- (d) 180°

Ans.(c)

Q26. A 800 turn coil of effective area 0.05 m^2 is kept perpendicular to a magnetic field $5 \times 10^{-5} \text{ T}$. When the plane of the coil is rotated by 90° around any of its coplanar axis in 0.1 s, the emf induced in the coil will be:

- (a) 0.2 V
- (b) $2 \times 10^{-3} \text{ V}$
- (c) 0.02 V
- (d) 2 V

Ans.(c)

Q27. A block of mass 10 kg is in contact against the inner wall of a hollow cylindrical drum of radius 1 m. The coefficient of friction between the block and the inner wall of the cylinder is 0.1. The minimum angular velocity needed for the cylinder to keep the block stationary when the cylinder is vertical and rotating about its axis will be:

- (g = 10 m/s^2)
- (a) $10/2\pi \text{ rad/s}$
 - (b) 10 rad/s
 - (c) $10\pi \text{ rad/s}$
 - (d) $\sqrt{10} \text{ rad/s}$

Ans.(b)

Q28. Two parallel infinite line charges with linear charge densities $+\lambda \text{ C/m}$ and $-\lambda \text{ C/m}$ are placed at a distance of $2R$ in free space. What is the electric field mid-way between the two line charges?

- (a) $(2\lambda) / (\pi \epsilon_0 R) \text{ N/C}$
- (b) $(\lambda) / (\pi \epsilon_0 R) \text{ N/C}$

(c) $(\lambda) / (2\pi \epsilon_0 R)$ N/C

(d) Zero

Ans.(b)

Q29. In which of the following processes, heat is neither absorbed nor released by a system?

(a) Adiabatic

(b) Isobaric

(c) Isochoric

(d) Isothermal

Ans.(a)

Q30. Which of the following statements related to the formation and observation of a rainbow is incorrect?

(a) The order of colours is reversed in the secondary rainbow

(b) An observer can see a rainbow when his front is towards the sun

(c) Rainbow is a combined effect of dispersion refraction and reflection of sunlight

(d) When the light rays undergo two internal reflections in a water drop, a secondary rainbow is formed

Ans.(b)

Q31. Following solutions were prepared by mixing different volumes of NaOH and HCl of different concentrations: (A) 60 mL of M/10 HCl + 40 mL of M/10 NaOH (B) 55 mL of M/10 HCl + 45 mL of M/10 NaOH (C) 75 mL of M/5 HCl + 25 mL of M/5 NaOH (D) 100 mL of M/10 HCl + 100 mL of M/10 NaOH pH of which one of them will be equal to 1?

(a) (B)

(b) (C)

(c) (D)

(d) (A)

Ans.(b)

Q32. Which mixture of the solutions will lead to the formation of negatively charged colloidal $[AgI]I^-$ sol?

(a) 50 mL of 1 M $AgNO_3$ + 50 mL of 2 M KI

(b) 50 mL of 2 M $AgNO_3$ + 50 mL of 1.5 M KI

(c) 50 mL of 0.1 M $AgNO_3$ + 50 mL of 0.1 M KI

(d) 50 mL of 1 M $AgNO_3$ + 50 mL of 1.5 M KI

Ans.(a)

Q33. Among the following, the narrow spectrum antibiotic is:

(a) Ampicillin

(b) Amoxicillin

(c) Chloramphenicol

(d) Penicillin G

Ans.(d)

Q34. Enzymes that utilize ATP in phosphate transfer require an alkaline earth metal (M) as the cofactor. M is:

(a) Mg

(b) Ca

(c) Sr

(d) Be

Ans.(a)

Q35. Match the following:

Column I: (A} Pure nitrogen (B} Haber process (C} Contact process (D} Deacon's process

Column II: (i} Chlorine (ii} Sulphuric acid (iii} Ammonia (iv} Sodium azide or Barium azide

Code:

(A} (B} (C} (D}

(a) (i} (ii} (iii} (iv}

(b) (ii} (iii} (iv} (i}

(c) (iv} (iii} (ii} (i}

(d) (ii} (iv} (iii} (i}

Ans.(c)

Q36. Considering Ellingham diagram, which of the following metals can be used to reduce alumina?

(a) Fe

(b) Cu

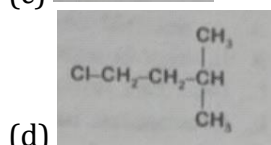
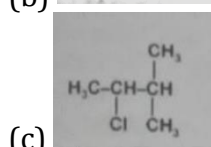
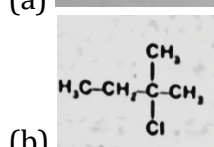
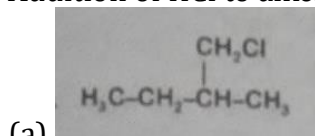
(c) Mg

(d) Zn

Ans.(c)

Q37. An alkene "A" on reaction with O_3 and $Zn-H_2O$ gives propanone and ethanal in equimolar ratio.

Addition of HCl to alkene "A" gives "B" as the major product. The structure of product "B" is:



Ans.(b)

Q38. What is the molecular geometry and magnetic behavior of tetracarbonylnickel(0), $Ni(CO)_4$?

(a) Tetrahedral geometry and paramagnetic

(b) Square planar geometry and diamagnetic

(c) Tetrahedral geometry and diamagnetic

(d) Square planar geometry and paramagnetic

Ans.(c)

Q39. Which oxide of nitrogen is not a common pollutant introduced into the atmosphere both due to natural and human activity?

- (a) N₂O₅
(b) NO
(c) N₂O
(d) NO₂

Ans.(a)

Q40. Which one of the following elements is unable to form MF₆³⁻ ion?

- (a) Ga
(b) In
(c) B
(d) Al

Ans.(c)

Q41. The solubility of BaSO₄ in water is 2.42×10^{-3} g L⁻¹ at 298 K. The value of its solubility product (K_{sp}) will be {Given molar mass of BaSO₄ = 233 g mol⁻¹}:

- (a) 1.08×10^{-10} mol² L⁻²
(b) 1.08×10^{-8} mol² L⁻²
(c) 1.08×10^{-14} mol² L⁻²
(d) 1.08×10^{-12} mol² L⁻²

Ans.(a)

Q42. The compound A on treatment with Na gives B, and with PCl₅ gives C. B and C react together to give diethyl ether. A, B and C are in the order:

- (a) C₂H₅OH, C₂H₆, C₂H₅Cl
(b) C₂H₅OH, C₂H₅ONa, C₂H₅Cl
(c) C₂H₅OH, C₂H₆, C₂H₅OH
(d) C₂H₅OH, C₂H₅Cl, C₂H₅ona

Ans.(b)

Q43. The correct order of atomic radii in group 13 elements is:

- (a) B < Al < In < Ga < Tl
(b) B < Ga < Al < In < Tl
(c) B < Ga < Al < Tl < In
(d) B < Al < Ga < In < Tl

Ans.(b)

Q44. Hydrocarbon (A) reacts with bromine by substitution to form an alkyl bromide which by Wurtz reaction is converted to gaseous hydrocarbon containing less than four carbon atoms. (A) is:

- (a) CH \equiv CH
(b) CH₄
(c) CH₃-CH₃
(d) CH₂ = CH₂

Ans.(b)

Q45. The correct order of N-compounds in its decreasing order of oxidation states is:

- (a) HNO₃, NO, N₂, NH₄Cl
(b) NH₄Cl, N₂, N₂O, HNO₃
(c) HNO₃, NH₄Cl, NO, N₂
(d) HNO₃, NO, NH₄Cl, N₂

Ans.(a)

Q46. Which of the following species is NOT stable?

- (a) $[\text{GeCl}_6]^{2-}$
- (b) $[\text{Sn}(\text{OH})_6]^{2-}$
- (c) $[\text{SiCl}_6]^{2-}$
- (d) $[\text{SiF}_6]^{2-}$

Ans.(c)

Q47. On which of the following properties does the coagulating power of an ion depend?

- (a) The magnitude of the charge on the ion alone
- (b) The sign of charge on the ion alone
- (c) Both magnitude and sign of the charge on the ion
- (d) Size of the ion alone

Ans.(c)

Q48. In the structure of ClF_3 , the number of lone pairs of electrons on central atom 'Cl' is:

- (a) one
- (b) three
- (c) four
- (d) two

Ans.(d)

Q49. Iron carbonyl, $\text{Fe}(\text{CO})_5$ is:

- (a) tetranuclear
- (b) dinuclear
- (c) trinuclear
- (d) mononuclear

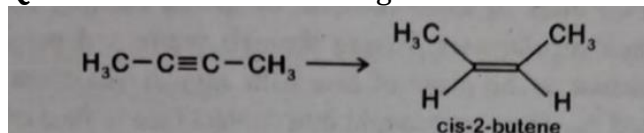
Ans.(d)

Q50. Given van der Waals constant for NH_3 , H_2 , O_2 and CO_2 are respectively 4.17, 0.244, 1.36 and 3.59, which one of the following gases is most easily liquefied?

- (a) NH_3
- (b) CO_2
- (c) O_2
- (d) H_2

Ans.(a)

Q51. The most suitable reagent for the following conversion is:



- (a) H_2 , Pd/C, quinoline
- (b) Zn/HCl
- (c) $\text{Hg}^{2+}/\text{H}^+$, H_2O
- (d) Na/liquid NH_3

Ans.(a)

Q52. Identify the incorrect statement related to PCl_5 from the following:

- (a) Two axial P-Cl bonds make an angle of 180° with each other
- (b) Axial P-Cl bonds are longer than equatorial P-Cl bonds
- (c) PCl_5 molecule is non-reactive
- (d) Three equatorial P-Cl bonds make an angle of 120° with each other

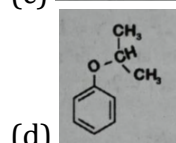
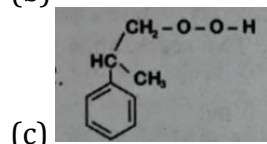
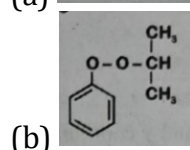
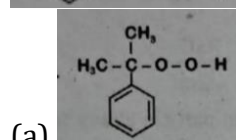
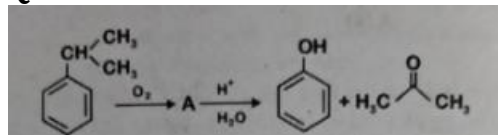
Ans.(c)

Q53. Which one is malachite from the following?

- (a) $\text{Cu}(\text{OH})_2$
- (b) Fe_3O_4
- (c) $\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$
- (d) CuFeS_2

Ans.(c)

Q54. The structure of intermediate A in the following reaction is:



Ans.(b)

Q55. Which of the following combinations, on mixing, will give a solution that resists change in pH on addition of small amounts of acid, indicating the formation of a basic buffer?

- (a) 100 mL of 0.1 M CH_3COOH + 100 mL of 0.1 M NaOH
- (b) 100 mL of 0.1 M HCl + 200 mL of 0.1 M NH_4OH
- (c) 100 mL of 0.1 M HCl + 100 mL of 0.1 M NaOH
- (d) 50 mL of 0.1 M NaOH + 25 mL of 0.1 M CH_3COOH

Ans.(b)

Q56. Considering the periodic trends and known exceptions, select the correct order of increasing first ionisation energy among the elements of the second period.

- (a) $\text{Li} < \text{B} < \text{Be} < \text{C} < \text{O} < \text{N} < \text{F} < \text{Ne}$
- (b) $\text{Li} < \text{B} < \text{Be} < \text{C} < \text{N} < \text{O} < \text{F} < \text{Ne}$
- (c) $\text{Li} < \text{Be} < \text{B} < \text{C} < \text{O} < \text{N} < \text{F} < \text{Ne}$

(d) $\text{Li} < \text{Be} < \text{B} < \text{C} < \text{N} < \text{O} < \text{F} < \text{Ne}$

Ans.(a)

Q57. The thermal stability of hydrides of group 16 elements varies down the group. Which of the following represents the correct order of increasing thermal stability of the hydrides H_2E (where $\text{E} = \text{O}, \text{S}, \text{Se}, \text{Te}, \text{Po}$)?

- (a) $\text{H}_2\text{O} < \text{H}_2\text{S} < \text{H}_2\text{Se} < \text{H}_2\text{Te} < \text{H}_2\text{Po}$
- (b) $\text{H}_3\text{Po} < \text{H}_2\text{Te} < \text{H}_2\text{Se} < \text{H}_2\text{S} < \text{H}_2\text{O}$
- (c) $\text{H}_2\text{Se} < \text{H}_2\text{Te} < \text{H}_3\text{Po} < \text{H}_2\text{O} < \text{H}_2\text{S}$
- (d) $\text{H}_2\text{S} < \text{H}_2\text{O} < \text{H}_2\text{Se} < \text{H}_2\text{Te} < \text{H}_3\text{Po}$

Ans.(b)

Q58. According to the balanced chemical equation of the Haber process, calculate the amount (in moles) of hydrogen needed to obtain 20 moles of NH_3 .

- (a) 20
- (b) 30
- (c) 40
- (d) 10

Ans.(b)

Q59. The biodegradable polymer is:

- (a) Nylon-2-Nylon 6
- (b) Nylon 6
- (c) Buna-S
- (d) Nylon-6,6

Ans.(a)

Q60. Under isothermal condition, a gas at 300 K expands from 0.10 L to 0.25 L against a constant external pressure of 2 bar. The work done by the gas is:

{Given that $1 \text{ L}\cdot\text{bar} = 100 \text{ J}$ }

- (a) 5 kJ
- (b) 25 J
- (c) 30 J
- (d) -30 J

Ans.(d)

Q61. Which of the following correctly represents epipetalous condition?

- (a) Stamens attached to sepals
- (b) Stamens attached to petals
- (c) Anthers fused
- (d) Filaments fused

Ans.(b)

Q62. Match the following immune disorders with their causes:

List I List II

- A. Allergy 1. Autoimmune reaction
- B. AIDS 2. IgE-mediated response
- C. Rheumatoid arthritis 3. HIV infection
- D. Cancer 4. Uncontrolled cell division

Choose the correct answer:

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

Ans.(a)

Q63. Inspiratory Capacity (IC) is:

- (a) TV + ERV (Expiratory Reserve Volume)
- (b) RV (Residual Volume) + ERV
- (c) TV + IRV + ERV
- (d) TV (Tidal Volume) + IRV (Inspiratory Reserve Volume)

Ans.(d)

Q64. Which enzyme proofreads during DNA replication?

- (a) DNA polymerase III
- (b) Ligase
- (c) Primase
- (d) Topoisomerase

Ans.(a)

Q65. Which of the following are unique features of chordates (at some life stage)?

1. Notochord
2. Post-anal tail
3. Ventral solid nerve cord
4. Pharyngeal slits

- (a) 1, 2 and 4
- (b) 3 and 4 only
- (c) 1 and 3 only
- (d) All four

Ans.(a)

Q66. (Match the Following)

List I List II

- A. Bryophytes I. Dominant gametophyte
- B. Pteridophytes II. Vascular tissue present
- C. Gymnosperms III. Naked seeds
- D. Angiosperms IV. Double fertilization

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

Ans.(a)

Q67. Which of the following stores starch, proteins and oil granules in a plant cell?

- (a) Protoplast
- (b) Chromoplast
- (c) Leucoplast
- (d) Chloroplast

Ans.(c)

Q68. In which animal phylum do individuals possess a true coelom, jointed appendages and chitinous exoskeleton?

- (a) Annelida
- (b) Arthropoda
- (c) Mollusca
- (d) Echinodermata

Ans.(b)

Q69. Photosynthetically active radiation is represented by the range of wavelength of

- (a) 340–450 nm
- (b) 400–700 nm
- (c) 500–600 nm
- (d) 400–950 nm

Ans.(b)

Q70. In Krebs cycle, decarboxylation of isocitrate leads to formation of:

- (a) Succinyl-CoA
- (b) α -ketoglutarate
- (c) Oxaloacetate
- (d) Citrate

Ans.(b)

Q71. C_4 acid formed in the mesophyll of C_4 plant during photosynthesis is

- (a) OAA or malic acid or aspartic acid
- (b) Pyruvic acid
- (c) Succinic acid
- (d) Fumaric acid

Ans.(a)

Q72. The BOD test measures the.

- (a) rate of uptake of carbon dioxide by micro-organisms in a sample of water
- (b) rate of uptake of oxygen by micro-organisms in a sample of water
- (c) rate of uptake of carbon monoxide by micro-organisms in a sample of water
- (d) rate of uptake of nitrogen by micro-organisms in a sample of water

Ans.(b)

Q73. Which of the following diseases is caused by protozoan parasite?

- (a) Dengue
- (b) Tuberculosis
- (c) Malaria
- (d) Influenza

Ans.(c)

Q74. Which tissue is responsible for formation of cork in dicot stem?

- (a) Vascular cambium
- (b) Cork cambium
- (c) Apical meristem

(d) Intercalary meristem

Ans.(b)

Q75. Which enzyme requires the presence of hydrochloric acid for its action in the process of digestion?

- (a) Lipase
- (b) Trypsin
- (c) Pepsin
- (d) Amylase

Ans.(c)

Q76. Which taxonomic category includes organisms showing maximum similarity?

- (a) Genus
- (b) Family
- (c) Species
- (d) Order

Ans.(c)

Q77. In the leaves of C_4 plants, malic acid formation during CO_2 fixation occurs in the cells of

- (a) bundle sheath
- (b) phloem
- (c) epidermis
- (d) mesophyll

Ans.(d)

Q78. Which contraceptive method prevents implantation?

- (a) Condoms
- (b) Oral pills
- (c) Copper-T
- (d) Vasectomy

Ans.(c)

Q79. In human female reproductive cycle, LH surge is responsible for:

- (a) Formation of corpus luteum
- (b) Ovulation
- (c) Follicular development
- (d) Menstrual bleeding

Ans.(b)

Q80. Bursa of Fabricius is an important organ of birds. This organ is associated with:

- (a) Production of uric acid
- (b) Metabolism of fatty acid
- (c) Generation of B-cells
- (d) Generation of basophils

Ans.(c)

Q81. Which of the following hormone–gland pairs is correct?

- (a) Insulin – Pituitary
- (b) Thyroxine – Adrenal
- (c) Aldosterone – Adrenal cortex

(d) Melatonin – Thyroid

Ans.(c)

Q82. In five kingdom classification, eubacteria differ from archaebacteria in having:

- (a) Peptidoglycan cell wall
- (b) Membrane-bound nucleus
- (c) Linear chromosomes
- (d) Histone proteins absent

Ans.(a)

Q83. Which epithelial tissue is specialized for absorption and secretion and lines the small intestine?

- (a) Squamous epithelium
- (b) Cuboidal epithelium
- (c) Columnar epithelium
- (d) Glandular epithelium

Ans.(c)

Q84. Which event occurs during ventricular diastole?

- (a) Semilunar valves open
- (b) AV valves open
- (c) Blood pumped into aorta
- (d) Ventricular pressure increases

Ans.(b)

Q85. Match Column 'A' with Column 'B' and select the suitable answer from the codes given below:

Column I	Column II
A. <i>Leishmania donovani</i>	{i} Malaria
B. <i>Wuchereria bancrofti</i>	{ii} Amoebiasis
C. <i>Trypanosoma gambiense</i>	{iii} Kala azar
D. <i>Entamoeba histolytica</i>	{iv} Sleeping sickness
	{v} Filariasis

- (a) A-(v), B-(iv), C-(iii), D-(ii)
- (b) A-(iii), B-(v), C-(iv), D-(ii)
- (c) A-(iii), B-(iv), C-(ii), D-(v)
- (d) A-(iv), B-(v), C-(i), D-(ii)

Ans.(b)

Q86. Which microbial product is used in statin therapy?

- (a) Cyclosporin
- (b) Penicillin
- (c) Lovastatin
- (d) Streptokinase

Ans.(c)

Q87. Which part of nephron is mainly responsible for selective reabsorption?

- (a) Bowman's capsule
- (b) Proximal convoluted tubule
- (c) Loop of Henle
- (d) Collecting duct

Ans.(b)

Q88. Which microbe is used in production of curd?

- (a) Lactobacillus
- (b) Rhizobium
- (c) Saccharomyces
- (d) Penicillium

Ans.(a)

Q89. Match the following:

List I List II

- A. Tidal volume I. Air inspired forcibly after normal inspiration
- B. Inspiratory reserve volume II. Air exchanged during normal respiration
- C. Expiratory reserve volume III. Air expelled forcibly after normal expiration
- D. Residual volume IV. Air remaining in lungs after forceful expiration

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

Ans.(a)

Q90. Match the following plant nutrients with deficiency symptoms:

List I List II

- A. Nitrogen 1. Chlorosis
- B. Phosphorus 2. Poor root growth
- C. Potassium 3. Marginal leaf necrosis
- D. Magnesium 4. Inhibition of chlorophyll synthesis

Choose the correct answer:

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

Ans.(a)

Q91. Which of the following statements is/are correct regarding the LEADS 2025 Report?

- 1. The report was released by Piyush Goyal.
- 2. Tamil Nadu and Uttar Pradesh were categorised as 'Exemplars'.
- 3. LEADS stands for Logistics Ease Across Different States.
- 4. The 2025 report continued the old three-tier classification system only.

- (a) 1, 2 and 3 only
- (b) 1 and 4 only
- (c) 2 and 3 only
- (d) 1, 2, 3 and 4

Ans.(a)

Q92. Which Indian state is known for its traditional buffalo racing, "Kambala"?

- (a) Kerala
- (b) Karnataka
- (c) Andhra Pradesh

(d) Tamil Nadu

Ans.(b)

Q93. Where did the Indian National Congress adopt the resolutions on 'Fundamental Right' and 'National Economic Programme' in 1931 ?

- (a) Karachi
- (b) Bombay
- (c) Calcutta
- (d) Lucknow

Ans.(a)

Q94. Which harvest festival in Tripura involves traditional tribal dances and rituals after jhum cultivation?

- (a) Moatsu
- (b) Losar
- (c) Garia Puja
- (d) Chapchar Kut

Ans.(c)

Q95. The "Moin-ud-Dowla Gold Cup" is associated with which sport in India?

- (a) Cricket
- (b) Hockey
- (c) Football
- (d) Polo

Ans.(a)

Q96. Which Article empowers Parliament to alter state boundaries and form new states?

- (a) Article 1
- (b) Article 2
- (c) Article 4
- (d) Article 3

Ans.(d)

Q97. Who was the first Indian female athlete to win a medal at the World Athletics Championships?

- (a) Hima Das
- (b) Anju Bobby George
- (c) Dutee Chand
- (d) PT Usha

Ans.(b)

Q98. Anai Mudi and Doda Betta, two of the highest peaks in the Western Ghats, are located in:

- (a) Himachal Pradesh
- (b) Tamil Nadu and Kerala
- (c) Sikkim and Assam
- (d) Odisha and Chhattisgarh

Ans.(b)

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Q99. The Constitutional provisions enabling the establishment of tribunals in India were introduced through which Amendment Act?

- (a) Fifty-second Amendment Act, 1985
- (b) Forty-first Amendment Act, 1975
- (c) Forty-fourth Amendment Act, 1978
- (d) Forty-second Amendment Act, 1976

Ans.(d)

Q100. Which Nobel-winning British author explored apartheid-era South Africa in her 1974 novel "The Conservationist"?

- (a) Nadine Gordimer
- (b) Doris Lessing
- (c) Bessie Head
- (d) J.M. Coetzee

Ans.(a)

