

NEET 2026

Question Paper PDF

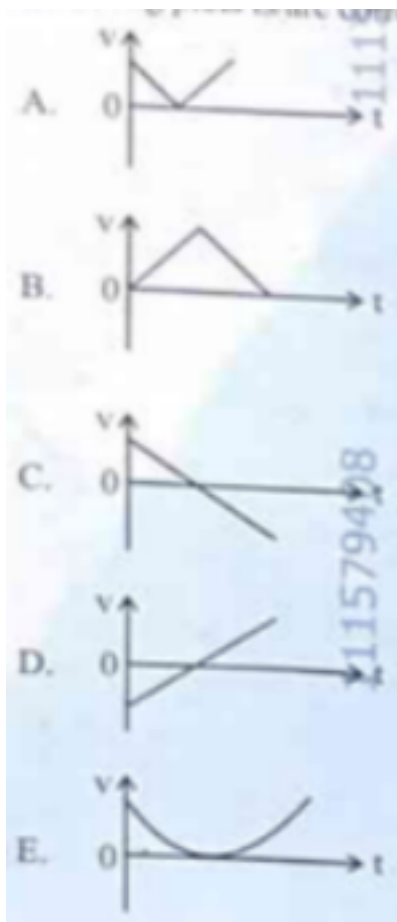
Conducted by National Testing Agency (NTA)

General Instructions

- (i) The test is of 3 hours duration.
- (ii) This test paper consists of 180 questions. The maximum marks are 720.
- (iii) Physics and Chemistry contains 45 questions each and Biology (Botany and Zoology) contains 90 questions.
- (iv) Each question carries +4 marks for correct answer and –1 mark for wrong answer.

Physics

1. The following plots show variation of velocity (v), with time (t), of a ball thrown vertically upward, and falling back. Which of the following plots is/are correct?



- (1) B only
- (2) A and E only
- (3) D only
- (4) C only

2. For a metal of work function 6.6 eV, which of the following wavelengths of incident radiation does not give rise to the photoelectric effect? (Take Planck's constant as $6.6 \times 10^{-34} \text{ Js}$)

- (1) 50 nm
- (2) 100 nm
- (3) 150 nm
- (4) 200 nm

3. The power of a crane, which lifts a mass of 1000 kg to a height of 20 m in 10 s is: ($g = 9.8 \text{ m/s}^2$)

- (2) 39.2 W
- (3) 19.6 kW
- (4) 19.6 W

4. Match List I with List II:

List I List II

- A. $E = h\nu$ I. de Broglie wavelength
- B. Diffraction and Interference II. Particle nature of light
- C. $\lambda = h/p$ III. Wave nature of light
- D. Compton effect IV. Energy of photon

- (1) A-IV, B-I, C-II, D-III
- (2) A-I, B-IV, C-III, D-II
- (3) A-IV, B-III, C-II, D-I
- (4) A-IV, B-III, C-I, D-II

5. The magnitude and direction of the acceleration produced in a body of mass 5 kg when two mutually perpendicular forces 8 N and 6 N act on it, are respectively:

- (1) 2 m s^{-2} ; $\tan^{-1}(4/3)$ with 8 N force
- (2) 2 m s^{-2} ; $\tan^{-1}(3/4)$ with 8 N force
- (3) 2 m s^{-2} ; $\tan^{-1}(3/4)$ with 6 N force
- (4) 20 m s^{-2} ; $\tan^{-1}(4/3)$ with 8 N force

6. The sum of kinetic energy and potential energy of a simple pendulum bob is 0.02 J. The speed of the simple pendulum bob at equilibrium position is approximately: (Consider mass of the bob = 20 g)

- (1) 14.1 m/s
- (2) 1.41 m/s

- (3) 2.0 m/s
- (4) 0.2 m/s

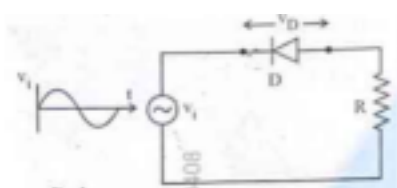
7. A box of mass 15 kg is kept on the floor of a stationary trolley. The coefficient of static friction between the box and the trolley is 0.12. Keeping the box in stationary state over the trolley, the maximum acceleration with which the trolley can be moved horizontally in m s^{-2} is: ____.

- (1) 1.2
- (2) 1.8
- (3) 1.5
- (4) 2.1

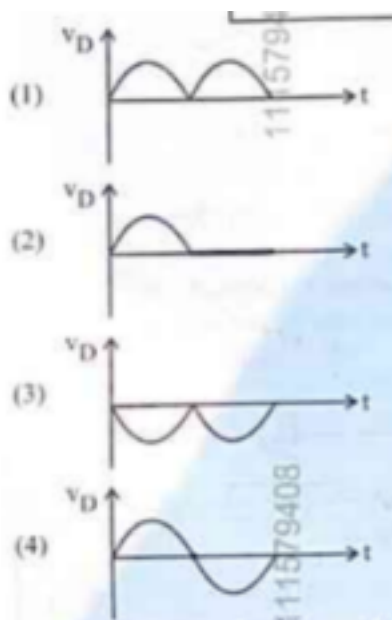
8. The speed of light in vacuum is taken as unity. If light takes 6 min 40 s to reach the Earth from the Sun, the distance between the Sun and the Earth in new unit is: ____.

- (1) 500
- (2) 3×10
- (3) 400
- (4) 3×10^1

9. In the circuit shown below, the voltage appearing across the diode D will be of the form:



_____.



10. A submarine is designed to withstand an absolute pressure of 100 atm. How deep can it go below the water surface? (Consider the density of water = 1000 kg m^{-3} , $1 \text{ atm} = 1 \times 10^5 \text{ Pa}$ and $g = 10 \text{ m/s}^2$)

- (1) 990 m
- (2) 9000 m
- (3) 99 m
- (4) 9900 m

11. An electric heater supplies heat to a system at a rate of 100 W. If the system performs work at a rate of 75 W, then the rate at which internal energy increases will be: ____.

- (1) 125 W
- (2) 75 W
- (3) 100 W
- (4) 25 W

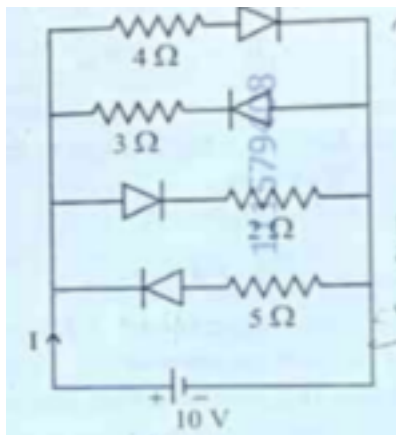
12. A 100-turn closely wound circular coil of radius 5 cm has a magnetic field of $3.14 \times 10^3 \text{ T}$ at its centre. The current flowing through the coil, and the magnitude of the magnetic moment

- (1) 2 A, 4 A m²
- (2) 2.5 A, 20 A m²
- (3) 2.5 A, 2 A m²
- (4) 2 A, 10 A m²

13. In Young's double slit experiment, using monochromatic light of wavelength λ , the intensity of light at a point on the screen where the path difference is $\lambda/3$ is K units. The intensity of light at a point where the path difference is $\lambda/2$ will be: ____.

- (1) K/2
- (2) 2K
- (3) K/4
- (4) K

14. The current I in the circuit shown below is: (All diodes are ideal and



identical)

- (1) 5/3 A
- (2) 5/9 A
- (3) 15/2 A
- (4) 1/3 A

15. In a concave lens, a ray of light emanating from the object parallel to the principal axis

the lens, after refraction: ____.

- (1) passes through the second principal focus.
- (2) appears to diverge from the first principal focus.
- (3) emerges parallel to the principal axis.
- (4) passes through $2F$, which is the radius of curvature of the lens.

16. A galvanometer of resistance $100\ \Omega$ gives full scale deflection for a current of $1\ \text{mA}$. It is converted into an ammeter of range $0 - 10\ \text{A}$. The shunt required is: ____.

- (1) $0.10\ \Omega$
- (2) $0.001\ \Omega$
- (3) $1.0\ \Omega$
- (4) $0.01\ \Omega$

17. In the first excited state of hydrogen atom, the energy of its electron is $10.2\ \text{eV}$. The radial distance of the electron from the hydrogen nucleus in this case is approximately: ____.

- (1) $2.1 \times 10^{11}\ \text{m}$
- (2) $2.1 \times 10^1\ \text{m}$
- (3) $2.1 \times 10\ \text{m}$
- (4) $2.1 \times 10\ \text{m}$

18. The amount of work done to raise a mass ' m ' from the surface of the Earth to a height equal to the radius of the Earth ' R ', will be: ____.

- (1) mgR
- (2) $2mgR$
- (3) $mgR/4$
- (4) $mgR/2$

19. An ac circuit contains a resistance of $1\ \text{k}\Omega$, a capacitor of $0.1\ \mu\text{F}$ and an inductor of 1

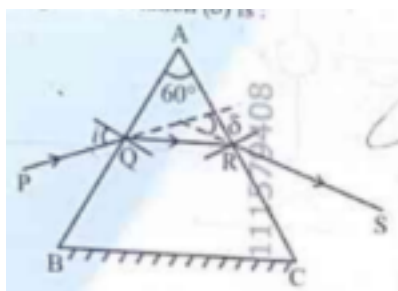
connected in series. The resonance frequency of the circuit is approximately: ____.

- (1) 13.5 kHz
- (2) 15.9 kHz
- (3) 10.1 kHz
- (4) 20.7 kHz

20. Consider two uncharged capacitors of equal capacitance 200 pF. One of them is charged by a 100 V supply and disconnected. Now this capacitor is connected to the uncharged capacitor. The amount of electrostatic energy lost in the process is: ____.

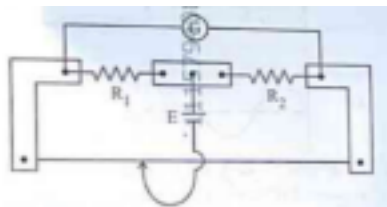
- (1) 1.0 J
- (2) 0.5 J
- (3) 1.0×10 J
- (4) 0.5×10 J

21. A ray of monochromatic light is passing through an equilateral prism (ABC) as shown in the figure. The refracted ray (QR) is parallel to its base (BC) and the angle of incidence (i) is 50° . Then the angle of deviation (δ) is: ____.



- (1) 45°
- (2) 40°
- (3) 35°
- (4) 55°

22. In a metre bridge experiment (as shown in figure), the positions of the cell E, and galvanometer G, are interchanged. We shall observe in the galvanometer: ____.



- (1) Only the left-sided deflection
- (2) Both right-sided and left-sided deflection and at balance point, no deflection
- (3) Only the right-sided deflection
- (4) There will be no deflection irrespective of the position of the jockey

23. A flask contains argon and chlorine in the ratio of 2 : 1 by mass. The temperature of the mixture is 27°C. The ratio of root mean square speed of the molecules of the two gases ($v_{rms}(Ar)/v_{rms}(Cl_2)$) is: (Atomic mass of argon = 40.0 u and molecular mass of chlorine = 70.0 u) ____.

- (1) 7/4
- (2) $\sqrt{7/2}$
- (3) $2/\sqrt{7}$
- (4) 7/2

24. Two statements are given below:

- A. When the forward bias voltage across a p-n junction diode increases above a certain threshold voltage, the diode current increases significantly.**
- B. This current is called reverse saturation current.**

Choose the correct answer from the options given below:

- (1) Statement A is true, but Statement B is false
- (2) Both Statements A and B are true
- (3) Both Statements A and B are false
- (4) Statement A is false, but Statement B is true

25. For a travelling harmonic wave $y(x, t) = 2.0\cos 2\pi(10t - 0.0080x + 0.35)$, where x and y are in cm and t in s. The phase difference between oscillatory motion of two points separated

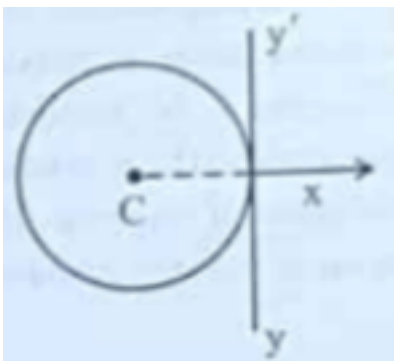
by a distance of 0.5 m is: ____.

- (1) $0.8 \pi \text{ rad}$
- (2) $8 \pi \text{ rad}$
- (3) $0.008 \pi \text{ rad}$
- (4) $0.08 \pi \text{ rad}$

26. A rectangular wire loop of sides 8 cm and 3 cm with a small cut, is moving out of a region of uniform magnetic field of magnitude 0.3 T directed normal to the plane of the loop. The emf developed across the cut, if the velocity of the loop is 2 cm s^{-1} , in a direction normal to the shorter side of the loop, will be: ____.

- (1) $4.8 \times 10 \text{ volt}$
- (2) $1.3 \times 10 \text{ volt}$
- (3) $1.2 \times 10 \text{ volt}$
- (4) $1.8 \times 10 \text{ volt}$

27. A thin wire of length 'L' and linear mass density 'm' is bent into a circular ring (in x-y plane) with centre 'C' as shown in figure. The moment of inertia of the ring about an axis yy will be: ____.



- (1) $3mL^2/8$
- (2) $3mL^2/8^2$
- (3) $3mL^3/8$

- (4) $3mL^3/8^2$

28. A resistor is connected to a battery of 12 V emf and internal resistance 2Ω . If the

current in the circuit is 0.6 A, the terminal voltage of the battery is: ____.

- (1) 10.8 V
- (2) 1.2 V
- (3) 12 V
- (4) 10 V

29. When a ruler falls vertically, 5 different persons catch it with different reaction times. What is the correct order of the distance travelled by the ruler for each person?

A. Person A: 0.20 s, B. Person B: 0.22 s, C. Person C: 0.18 s, D. Person D: 0.19 s, E. Person E: 0.21 s.

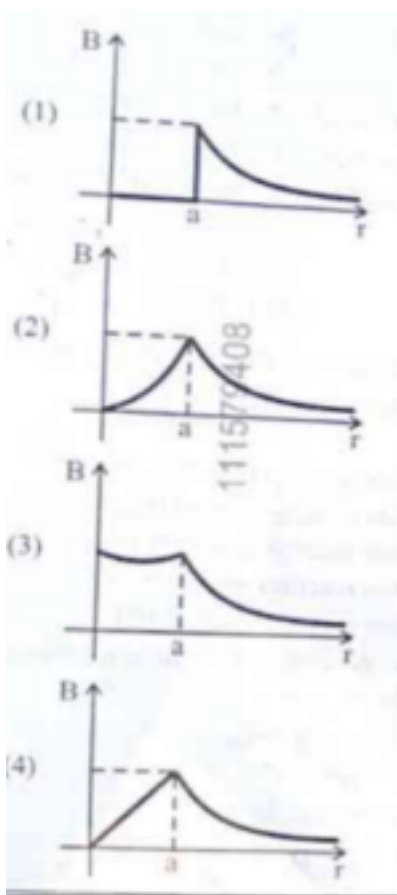
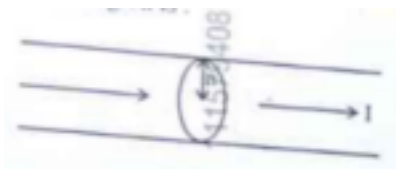
- (1) $C > D > A > E > B$
- (2) $C > D > A > B > E$
- (3) $B > E > A > D > C$
- (4) $B > E > A > C > D$

30. The angular speed of a flywheel is increased from 600 rpm to 1200 rpm in 10 s. The number of revolutions completed by the flywheel during this time is: ____.

- (1) 300
- (2) 150
- (3) 900
- (4) 600

31. The figure given below shows a long straight solid wire of circular cross-section of radius 'a' carrying steady current I. The current I is uniformly distributed across its cross-section. The plot which correctly represents the variation of magnetic field (B) with distance (r) from the

axis of the conductor in the region is: ____.



32. Four statements are given (A is mass number):

A. The volume of a nucleus is proportional to A.

B. The volume of a nucleus is proportional to $A^{1/3}$.

C. The difference in mass of an atom and its nucleus is called the mass defect. D.

The difference in mass of a nucleus and its constituents is called the mass defect.

Choose the correct answer from the options given below:

(1) A and D are true, but B and C are false

(2) B and D are true, but A and C are false

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(3) B and C are true, but A and D are false

(4) A and C are true, but B and D are false

33. Savitha notes down the data of time taken to complete 30 oscillations as 60 s and hence calculates the length of the simple pendulum as: (Take $\pi^2 = 9.8$, and $g = 9.8 \text{ m/s}^2$)

- (1) 2 m
- (2) 1 m
- (3) 0.75 m
- (4) 1.5 m

34. In a vernier callipers, 20 VSD coincide with 16 MSD (each division of length 1 mm). The least count of the vernier callipers is: ____.

- (1) 0.1 cm
- (2) 0.02 cm
- (3) 0.01 cm
- (4) 0.2 cm

35. Each side of a metallic cube of mass 5.580 kg is measured to be 9.0 cm. Keeping the significant figures in view, the density of the material of the cube can be best expressed as $X \times 10^3 \text{ kg m}^3$, where the value of X is: ____.

- (1) 7.654
- (2) 7.6
- (3) 7.65
- (4) 7.7

36. In interference and diffraction, the light energy is redistributed. If it reduces in one region, producing a dark fringe, it increases in another region, producing a bright fringe.

A. As there is no gain or loss of energy, these phenomena are consistent with the principle

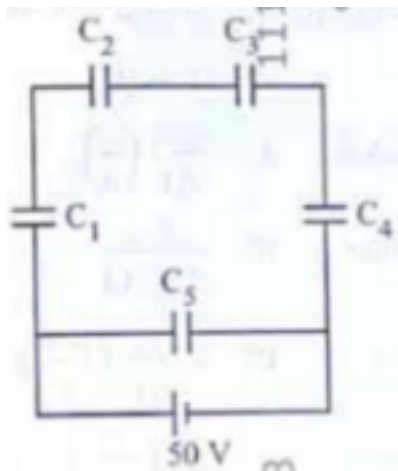
conservation of energy.

B. Diffraction and interference are characteristics exhibited only by light

waves. Choose the correct answer from the options given below:

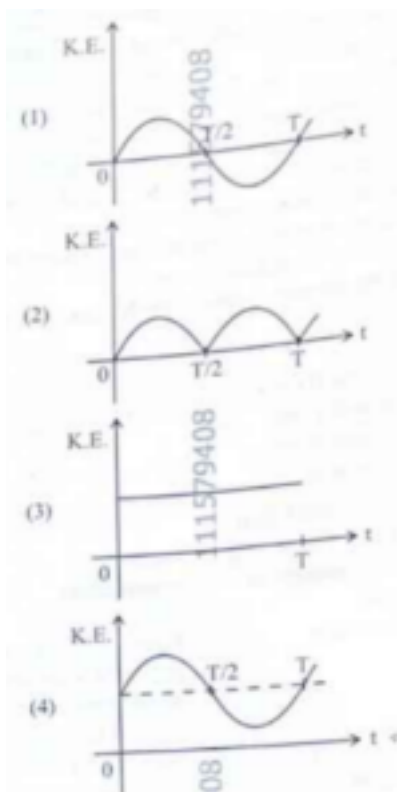
- (1) A is false, but B is true
- (2) A is true and B is also true
- (3) A is true, but B is false
- (4) Both A and B are false

37. Five capacitors of capacitances $C = C = C = C = 10 \mu\text{F}$ and $C = 2.5 \mu\text{F}$ are connected as shown, along with a battery of 50 V. The equivalent capacitance and the charges on each capacitor respectively are: ____.



- (1) $5 \mu\text{F}$, $125 \mu\text{C}$ on C to C and $25 \mu\text{C}$ on C
- (2) $4 \mu\text{F}$, $250 \mu\text{C}$ on C to C and $125 \mu\text{C}$ on C
- (3) $5 \mu\text{F}$, $250 \mu\text{C}$ on all capacitors
- (4) $5 \mu\text{F}$, $125 \mu\text{C}$ on all capacitors

38. For a simple pendulum, having time period T , the variation of kinetic energy (K.E.) with time (t) is represented by: ____.



39. A room heater is rated 400 W, 220 V. If the supply voltage drops to 200 V, what will be the power consumed (approximately)? ____.

- (1) 121 W
- (2) 200 W
- (3) 400 W
- (4) 331 W

40. The peak value of an alternating current is 5 A and frequency is 60 Hz. How long will the current, starting from zero, take to reach the peak value? ____.

- (1) 1/60 s
- (2) 1/240 s
- (3) 1/30 s
- (4) 1/120 s

41. Which of the following statements are correct?

A. Inside a conductor, the electrostatic field is zero.

B. Electric field at the surface of a charged conductor does not depend on its surface

charge density.

C. The interior of a charged conductor can have no excess charge in the static situation.

D. At the surface of a charged conductor, the electrostatic field must be normal to the surface at every point.

E. The electrostatic potential is zero everywhere inside a charged

conductor. Choose the correct answer from the options given below:

(1) A, C and D only

(2) A, C and E only

(3) C, D and E only

(4) A, B and D only

42. Match List I with List II:

List I (EM Wave) List II (Production)

A. Microwave I. Electronic transitions in atoms

B. Visible light II. Radioactive decay of nucleus

C. Gamma rays III. Vibration of atoms and molecules

D. Infra-red rays IV. Klystron or magnetron valve

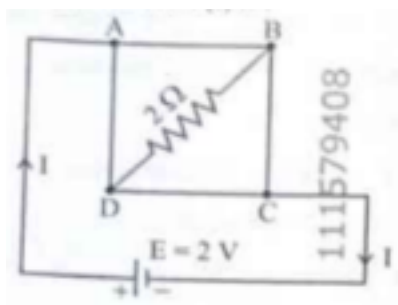
(1) A-III, B-I, C-II, D-IV

(2) A-III, B-IV, C-I, D-II

(3) A-IV, B-I, C-II, D-III

(4) A-IV, B-III, C-II, D-I

43. A uniform metallic wire having resistance $4\ \Omega$ is bent to form a square loop (ABCD). A resistance of $2\ \Omega$ is connected between points B and D and a battery of $2\ \text{V}$ is connected across points A and C as shown in the figure. Now the amount of current (I) is: ____.



- (1) 4 A
- (2) 8 A
- (3) 4.5 A
- (4) 2 A

44. An unknown nucleus has a nuclear density of $2.29 \times 10^{17} \text{ kg/m}^3$ and mass of $19.926 \times 10^{-27} \text{ kg}$. Its mass number A is approximately: (Take $R_0 = 1.2 \times 10^{-15} \text{ m}$, $4\pi = 12.56$)

- (1) 12
- (2) 16
- (3) 19
- (4) 20

45. Match List I with List II:

List I List II

- A. Young's Modulus I. $(\Delta d/d)/(\Delta L/L)$
 B. Compressibility II. $F L/[A(\Delta L)]$
 C. Bulk Modulus III. $-(1/\Delta P)(\Delta V/V)$
 D. Poisson's Ratio IV. $-V\Delta P/\Delta V$
- (1) A-II, B-III, C-IV, D-I
 - (2) A-III, B-II, C-I, D-IV
 - (3) A-II, B-IV, C-III, D-I
 - (4) A-IV, B-I, C-II, D-III

46.

The correct statement with regard to the secondary structure of DNA/RNA is:

(A) DNA possesses a single strand helix structure and contains uracil as one of the four bases. (B) DNA possesses a double strand helix structure and contains thymine as one of the four bases. (C) RNA possesses a double strand helix structure and contains uracil as one of the four bases. (D) RNA possesses a single strand helix structure and contains thymine as one of the four bases.

47.

Match List-I with List-II. List-I contains quantum numbers and List-II contains orbitals.

List-I *n l*

A 2 1

B 4 0

C 5 3

D 3 2

List-II Orbital

I 3*d*

II 2*p*

III 4*s*

IV 5*f*

(A) A-II, B-III, C-I, D-IV

(B) A-II, B-III, C-IV, D-I

(C) A-IV, B-II, C-III, D-I

(D) A-I, B-II, C-III, D-IV

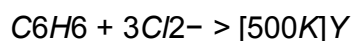
48.

During Lassaigne's test, the elements present in an organic compound are

- (A) Covalent form to ionic form
- (B) Covalent form to covalent form
- (C) Ionic form to ionic form
- (D) Ionic form to covalent form

49.

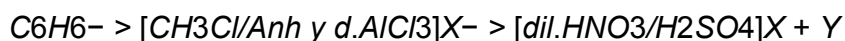
The number of chlorine atoms present in the organic products X and Y of the following reactions respectively are:



- (A) 1 and 6
- (B) 6 and 3
- (C) 3 and 3
- (D) 6 and 6

50.

The suitable method that can be used for separation of products X and Y is:



- (A) Sublimation
- (B) Differential extraction
- (C) Continuous extraction
- (D) Fractional distillation

51.

Identify the correct statement about ClF_3 .

- (A) It has T-shaped geometry with three lone pairs on Cl atom.

(B) It has planar trigonal geometry with two lone pairs on Cl atom.

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(C) It has T-shaped geometry with two lone pairs on Cl atom.

(D) It has trigonal pyramidal geometry with two lone pairs on Cl atom.

52.

The functional group that can be identified through Tollens' reagent test is:

(A) Aldehyde

(B) Alcoholic

(C) Phenolic

(D) Carboxylic acid

53.

A solution of copper sulphate is electrolysed for 10 minutes with a current of 1.5 ampere.

The mass of copper deposited at the cathode is:

Given: Molar mass of Cu = 63.5 g mol^{-1}

$$F = 96487 \text{ C mol}^{-1}$$

(A) 0.296 g

(B) 1.7018 g

(C) 2.4036 g

(D) 0.5876 g

54.

Match List-I with List-II.

List-I Transition metal/compound

A V_2O_5

B Fe

C PdCl_2

D Ni complex

List-II Catalytic role

I Preparation of ammonia from N_2/H_2 mixture

II Polymerisation of alkynes

III Oxidation of SO_2 to SO_3

IV Preparation of ethyne to ethene

(A) A-II, B-I, C-IV, D-III

(B) A-IV, B-III, C-II, D-I

(C) A-II, B-I, C-III, D-IV

(D) A-III, B-I, C-IV, D-II

55.

Match List-I with List-II.

List-I Complex/Ion

A $[CoCl_2(NH_3)_4]$ B $[Co(NH_3)_6]Cl_3$ C $[NiCl_4]^{2-}$ D $[Fe(CO)_5]$

List-II Shape/Geometry

I Octahedral

II Trigonal bipyramidal

III Square planar

IV Tetrahedral

(A) A-I, B-I, C-IV, D-II

(B) A-IV, B-I, C-III, D-II

(C) A-I, B-IV, C-II, D-III

(D) A-III, B-IV, C-I, D-II

56.

Identify the incorrect statement from the following.

- (A) The IUPAC name of element with atomic number 107 is Unnilseptium. (B) The oxidation state and covalency of aluminium in $[Al(H_2O)_6]^{3+}$ are +3 and 6, respectively. (C) Common oxidation states of aluminium are +1 and +3. (D) Functional similarities in the behaviour of lithium with magnesium are referred to as diagonal relationship.

57.

Given below is an expression for the rate constant of a first order reaction occurring at a certain temperature $T(K)$:

$$\ln k = 14.34 - \frac{1.25 \times 10^4}{T}$$

Given $R = 1.987 \text{ cal mol}^{-1}\text{K}^{-1}$. The activation energy of the reaction is:

- (A) $14.34 \text{ kcal mol}^{-1}$
- (B) $18.63 \text{ kcal mol}^{-1}$
- (C) $24.84 \text{ kcal mol}^{-1}$
- (D) $12.42 \text{ kcal mol}^{-1}$

58.

Phenolphthalein is used as an indicator for titration of sodium hydroxide solution against a standard solution of oxalic acid. The colour change observed at an alkaline pH close to equivalence point of this titration is:

- (A) Colourless to pink
- (B) Pinkish red to yellow
- (C) Pink to colourless
- (D) Yellow to pinkish red

59.

Methane reacts with steam at $1273K$ in the presence of nickel catalyst to form:

- (A) CO and H_2
- (B) CO_2 and H_2

- (C) CO and H_2O

(D) CO_2 and H_2O

60.

Match List-I with List-II.

List-I Reaction

A Benzene to isopropylbenzene

B Acetic acid to ethanol

C Propan-1-ol to propene

D Benzene to phenol

List-II Reagent/Condition

I Steam

II Reduction

III H^+ , Δ

IV Conc. H_2SO_4 , Δ

(A) A-I, B-II, C-IV, D-III

(B) A-III, B-IV, C-II, D-I

(C) A-II, B-I, C-IV, D-III

(D) A-IV, B-III, C-I, D-II

61.

The pair of molecules that are isomers among the following is:

(A) $\text{CH}_3\text{OCH}_2\text{CH}_2\text{CH}_3$ and $\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$

(B) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$ and $\text{CH}_3\text{CH}_2\text{OCH}_3$

(C) CH_3COCH_3 and $\text{CH}_3\text{CH}_2\text{CHO}$

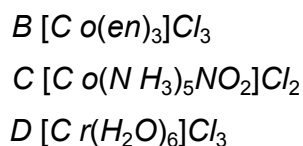
(D) $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$ and $\text{CH}_3\text{CH}_2\text{COOH}$

62.

Match List-I with List-II.

List-I Complex

A $[\text{Pt}(\text{NH}_3)_2\text{Cl}_2]$



List-II Type of isomerism

I Optical

II Solvate

III Geometrical

IV Linkage

- (A) A-III, B-I, C-IV, D-II
 (B) A-II, B-I, C-III, D-IV
 (C) A-IV, B-III, C-II, D-I
 (D) A-I, B-II, C-IV, D-III

63.

The number of hydrogen atoms present in 5.4 g of urea is:

Given: Molar mass of urea = 60 g mol^{-1}

$$N_A = 6.022 \times 10^{23} \text{ particles mol}^{-1}$$

- (A) 2.168×10^{22}
 (B) 2.168×10^{23}
 (C) 1.084×10^{22}
 (D) 1.084×10^{23}

64.

The calculated spin-only magnetic moment of Ti^{2+} is:

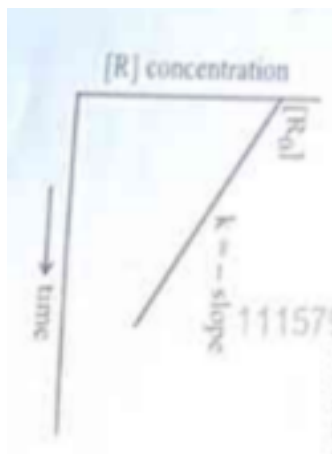
- (A) 3.87 BM
 (B) 5.92 BM

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- (C) 4.90 BM
 (D) 2.82 BM

65.

For a certain reaction $R \rightarrow \text{Product}$, the plot of concentration $[R]$ versus time has a negative slope as shown. The order of reaction is:

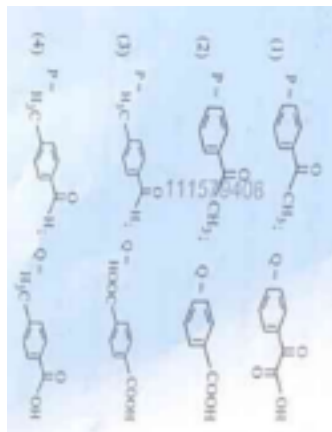


- (A) 1
- (B) 2
- (C) 2.5
- (D) 0

66.

Compound P gives a red-orange precipitate with 2,4-DNP reagent and does not reduce Fehling's reagent. On drastic oxidation with chromic acid, P gives an aromatic product Q which produces effervescence on treating with aqueous $NaHCO_3$. Compounds P and Q , respectively, are:

benzoic acid



- (A) Acetophenone and
(B) Acetophenone and phenylacetic acid
(C) Benzaldehyde and benzoic acid
(D) Phenol and benzoic acid

67.

Match List-I with List-II.

List-I Order of reaction

- A Zero order
B First order
C Second order
D Third order

List-II Unit of rate constant

- I $\text{mol}^{-1}\text{L s}^{-1}$
II $\text{mol}^{-2}\text{L}^2\text{s}^{-1}$
III s^{-1}
IV $\text{mol L}^{-1}\text{s}^{-1}$

- (A) A-IV, B-III, C-II, D-I
(B) A-IV, B-III, C-I, D-II
(C) A-IV, B-II, C-I, D-III
(D) A-I, B-II, C-III, D-IV

68.

Although +3 oxidation state is most common in lanthanoids, cerium still shows +4 oxidation state because:

- (A) After losing one more electron, it acquires $4d^4$ electronic configuration.
- (B) Its atomic number is 61.
- (C) After losing one more electron, it acquires $4f^0$ electronic configuration.
- (D) Its common inert gas is radon.

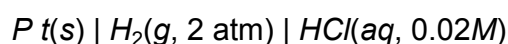
69.

In a test tube containing a salt, a few drops of dilute H_2SO_4 was added, which gave colourless vapours having the smell of vinegar. The vapours turned blue litmus paper red. Identify the correct anion from the following.

- (A) Carbonate, CO_3^{2-}
- (B) Sulphite, SO_3^{2-}
- (C) Acetate, CH_3COO^-
- (D) Sulphide, S^{2-}

70.

Calculate emf of the half-cell given below:



$$E_{H^+/H_2} = 0V, 2.303RT$$

$$F = 0.059$$

$$\log 2 = 0.3010$$

- (A) 0.035V
- (B) -0.035V
- (C) -0.109V
- (D) 0.109V

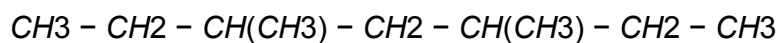
71.

At 298K, a certain buffer solution contains equal concentrations of X^- and HX . If K_b for X^- is 10^{-10} , what is the pH of this buffer solution?

- (A) 4
- (B) 6
- (C) 2
- (D) 10

72.

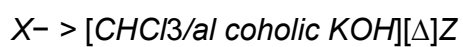
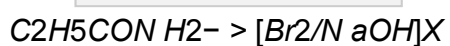
The correct IUPAC name of the following compound is:



- (A) 3-methyl-5-ethylhexane
- (B) 3-ethyl-5-methylheptane
- (C) 3,5-dimethylheptane
- (D) 2,4-diethylhexane

73.

The following two reactions give the same foul smelling product Z:



X and Z, respectively, are:

- (A) $\text{X} = \text{C}_2\text{H}_5\text{CN}$, $\text{Z} = \text{C}_2\text{H}_5\text{NC}$
- (B) $\text{X} = \text{C}_2\text{H}_5\text{NH}_2$, $\text{Z} = \text{C}_2\text{H}_5\text{CN}$
- (C) $\text{X} = \text{C}_2\text{H}_5\text{NH}_2$, $\text{Z} = \text{C}_2\text{H}_5\text{NC}$
- (D) $\text{X} = \text{CH}_3\text{NH}_2$, $\text{Z} = \text{CH}_3\text{NC}$

Given below are two statements. Assertion (A): Molar solubility of a gas in a liquid decreases with increase in pressure at constant temperature. Reason (R): Henry's law

describes that at constant temperature, the partial pressure of a gas in vapour phase is directly proportional to the mole fraction of the gas in solution. Choose the most appropriate answer.

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
- (C) (A) is correct but (R) is not correct
- (D) (A) is not correct but (R) is correct

75.

Identify the correct statements.

- A.** Molality of a solution is defined as mass of solute in gram dissolved in solution.
- B.** Molality of a solution is defined as the number of moles of solute dissolved in 1 kg of solvent.
- C.** Aqueous solution of NH_4OH and NH_4Cl is a basic buffer solution.
- D.** Solubility of a gas in a liquid increases with increase in pressure.

- (A) A and B only
- (B) B, C and D only
- (C) A, B and C only
- (D) A and C only

76.

Identify the incorrect statement from the following:

- (A) BCl_3 , ($E = B$ and Al), is a monomer when $E = B$ and a dimer when $E = Al$. (B)
- The order of catenation property of Group 14 elements is $C \gg Si > Ge = Sn$. (C)
- Oxygen exhibits only -2 oxidation state.
- (D) Carbon has the ability to form $p\pi - p\pi$ multiple bond with itself.

77.

The correct formal charges on oxygen atoms numbered 2, 1 and 3, respectively,



are:

- (A) $-1, 0, +1$
- (B) $0, 0, 0$
- (C) $0, +1, -1$
- (D) $+1, 0, -1$

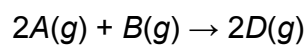
78.

At a certain temperature K , during a process, 500 J is absorbed by the system and work of 200 J is done by the system. Then change in internal energy of the system is:

- (A) 500 J
- (B) 400 J
- (C) 300 J
- (D) 700 J

79.

Consider the following reaction:



$$\Delta U^\circ = -10\text{ kJ mol}^{-1}$$

$$\Delta S^\circ = -44\text{ J K}^{-1}\text{mol}^{-1}$$

at 298K. Identify the correct option with ΔG° for the reaction and spontaneity of the reaction at 298K.

$$R = 8.31 \text{ J mol}^{-1} \text{ K}^{-1}$$

- (A) $-0.63568 \text{ kJ mol}^{-1}$, spontaneous
- (B) $+0.63568 \text{ kJ mol}^{-1}$, non-spontaneous
- (C) $-1.635 \text{ kJ mol}^{-1}$, spontaneous
- (D) $+1.635 \text{ kJ mol}^{-1}$, non-spontaneous

80.

Select the reagents that reduce nitriles to primary amines:

- A. LiAlH_4
- B. $\text{Sn} + \text{HCl}$
- C. $\text{H}_2 - \text{Ni}$
- D. $\text{Na(Hg)}/\text{C}_2\text{H}_5\text{OH}$
- E. $\text{Br}_2/\text{aq. NaOH}$

- (A) A, C and D only
- (B) A, B and C only
- (C) B, D and E only
- (D) A, D and E only

81.

Which one of the following is an ambidentate ligand?

- (A) Oxalate
- (B) Ethylenediamine
- (C) Thiocyanate ion
- (D) Ethane-1,2-diamine

82.

A bulb is rated at 150 watt, converting 8% energy into light. If energy of one photon is $4.42 \times 10^{-19} \text{ J}$, how many photons are emitted by the bulb per second?

- (A) 1.35×10^{19}
- (B) 2.71×10^{19}
- (C) 27.2×10^{19}
- (D) 4.06×10^{19}

83.

Identify the incorrect statement from the following:

- (A) Nitrogen can form $p\pi - p\pi$ multiple bonds with itself.
- (B) $P(\text{CH}_3)_3$ and $\text{As}(\text{CH}_3)_3$ form $d\pi - d\pi$ bond with transition metals.
- (C) Nitrogen can form $d\pi - p\pi$ bond with oxygen.
- (D) Phosphorus, arsenic and antimony show catenation property.

84.

The correct order of increasing metallic character of Na, Be, Mg, Si and P is:

- (A) $P < Si < Be < Mg < Na$
- (B) $Be < Si < P < Mg < Na$
- (C) $P < Mg < Na < Si < Be$
- (D) $P < Mg < Be < Si < Na$

85.

In a qualitative analysis, Bi^{3+} is detected by appearance of precipitate of $\text{BiO}(\text{OH})$. Calculate pH when the following equilibrium exists at 298K:



$$K = 4 \times 10^{-10}$$

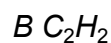
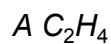
Given: $\log 2 = 0.3010$

- (A) 4.699
- (B) 9.301
- (C) 5.286
- (D) 8.714

86.

Match List-I with List-II.

List-I Molecule



List-II Bonding feature

/ 1 σ bond, 2 π bonds

// 3 σ bonds, 1 lone pair

/// 4 σ bonds

/ V 1 σ bond, 1 π bond

- (A) A-I, B-II, C-IV, D-III
- (B) A-III, B-IV, C-II, D-I
- (C) A-II, B-IV, C-I, D-III
- (D) A-IV, B-I, C-III, D-II

87.

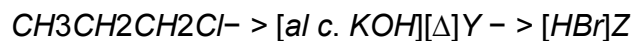
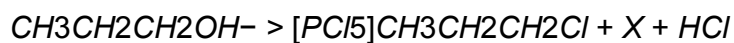
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Given below are the reactions. Identify the reaction for which $K_p < K_c$:

- (A) $N_2(g) + O_2(g) \rightleftharpoons 2NO(g)$
- (B) $H_2O(g) + CO(g) \rightleftharpoons H_2(g) + CO_2(g)$
- (C) $H_2(g) + I_2(g) \rightleftharpoons 2HI(g)$
- (D) $N_2(g) + 3H_2(g) \rightleftharpoons 2NH_3(g)$

88.

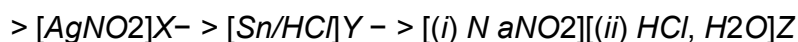
In the following reaction sequence, X and Z, respectively, are:



- (A) $\text{X} = \text{H}_3\text{PO}_3$, $\text{Z} = \text{CH}_3\text{CH}=\text{CH}_2$
(B) $\text{X} = \text{POCl}_3$, $\text{Z} = \text{CH}_3-\text{CH}(\text{Br})-\text{CH}_3$
(C) $\text{X} = \text{H}_3\text{PO}_3$, $\text{Z} = \text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$
(D) $\text{X} = \text{POCl}_3$, $\text{Z} = \text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$

89.

The major product Z formed in the following sequence of reactions is: $\text{C}_2\text{H}_5\text{Cl}$



- (A) $\text{C}_2\text{H}_5\text{NO}_2$
(B) $\text{C}_2\text{H}_5-\text{N}=\text{N}-\text{OH}$
(C) $\text{C}_2\text{H}_5\text{N H}_2$
(D) $\text{C}_2\text{H}_5\text{OH}$

90.

When 1 dm^3 of CO_2 gas is passed over hot coke, the volume of gaseous mixture after complete reaction at STP becomes 1.4 dm^3 . The composition of the gaseous mixture at STP is:

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- (A) 0.6 dm^3 of CO, 0.8 dm^3 of CO_2
(B) 0.6 dm^3 of CO, 0.9 dm^3 of CO_2
(C) 0.8 dm^3 of CO, 0.6 dm^3 of CO_2
(D) 0.8 dm^3 of CO, 0.7 dm^3 of CO_2

Botany

91. Match List I with List II regarding the phases of the cell cycle and their activities:

List I (Phase) List II (Activity)

- A. G_1 phase I. Actual cell division occurs
B. S phase II. Cell is metabolically active and continuously grows but does not replicate its DNA C.
 G_2 phase III. Synthesis of DNA occurs and the amount of DNA per cell doubles D. M phase IV.
Proteins are synthesized while cell growth continues

Choose the correct answer from the options given below:

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

92. Match List I with List II regarding patterns of inheritance:

List I List II

- A. Incomplete dominance I. Human skin colour
B. Co-dominance II. Inheritance of flower colour in *Antirrhinum* sp. C.
Pleiotropy III. Phenylketonuria disease in humans
D. Polygenic inheritance IV. ABO blood groups

Choose the correct answer from the options given below:

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

- 93.** Which of the following statements are **correct**? A. The Amazon rainforest being cut and cleared for cultivation of soyabeans is an example of habitat loss.
- B. Steller's sea cow and passenger pigeon became extinct due to over-exploitation by humans.
- C. The Nile perch introduced into Lake Victoria in East Africa helped in population growth of cichlid fish in the lake.
- D. Water hyacinth is an invasive species.
- E. When a species becomes extinct, the plant and animal species associated with it are not affected.

(a) **B, C and D only**

(b) **A, B and D only**

(c) **A, B and E only**

(d) **C, D and E only**

- 94.** Which of the following statements are **correct** with reference to a transcription unit in DNA?
- A. A transcription unit in DNA is defined primarily by three regions: promoter, structural gene and terminator.
- B. The promoter is said to be located towards the 5'-end of the structural gene. C. The promoter is a DNA sequence that provides binding site for RNA polymerase.
- D. The promoter defines the template and coding strands.
- E. The terminator is located towards the 3'-end of the coding strand and it defines the end of the process of transcription.

(a) **A, C, D and E only**

(b) **A, B, C, D and E**

(c) **A, B, C and D only**

(d) **B, C, D and E only**

95. Which of the following statements are true with reference to the sex-determination in honeybees?

- A. An offspring formed from the union of a sperm and an egg develops as a female (queen or worker).
- B. An unfertilized egg develops as a male by parthenogenesis.
- C. A male has half the number of chromosomes than that of a female.
- D. Males produce sperms by meiosis.
- E. Honeybees have a haplodiploid sex-determination system.

(a) **A, B, C and E only**

(b) **B, C, D and E only**

(c) **A, B, C and D only**

(d) **A, B, D and E only**

96. Match List I with List II regarding cellular processes and their specific locations within the cell:

List I (Process) List II (Location)

- A. Glycolysis I. Inner mitochondrial membrane
- B. ETS II. Mitochondrial matrix
- C. Accumulation of protons III. Cytoplasm
- D. Krebs' cycle IV. Intermembrane space

Choose the correct answer from the options given below:

(a) **A-IV, B-II, C-I, D-III**

(b) **A-I, B-IV, C-III, D-II**

(c) **A-II, B-III, C-IV, D-I**

(d) **A-III, B-I, C-IV, D-II**

97. How many ATP and *NADPH* molecules are required to make one molecule of glucose through

the Calvin pathway?

- (a) **18 ATP and 12 NADPH**
- (b) **6 ATP and 12 NADPH**
- (c) **24 ATP and 18 NADPH**
- (d) **12 ATP and 18 NADPH**

98. Match List I with List II :

List I List II

- A. Genetically modified organism I. *Agrobacterium tumefaciens*
- B. Thermostable DNA polymerase II. Bt cotton
- C. Ti plasmid III. *Thermus aquaticus*
- D. pBR322 IV. *Escherichia coli*

Choose the correct answer from the options given below :

- (a) **(1) A-II, B-III, C-I, D-IV**
- (b) **(2) A-I, B-IV, C-III, D-II**
- (c) **(3) A-I, B-II, C-IV, D-III**
- (d) **(4) A-II, B-I, C-IV, D-III**

99. In which one of the following, the ovules are not enclosed by an ovary wall and remain exposed ?

- (a) **(1) *Funaria***
- (b) **(2) *Pinus***
- (c) **(3) *Selaginella***

- (d) **(4) *Wolffia***

100. The enzyme required for carboxylation in the Calvin cycle is :

- (a) **(1) Carboxypeptidase**
- (b) **(2) PEP carboxylase**
- (c) **(3) RuBP carboxylase – oxygenase**
- (d) **(4) Hexokinase**

101. Match List I with List II :

List I List II

- A. Trypsin I. Intercellular ground substance
- B. Morphine II. Lectin
- C. Concanavalin A III. Enzyme
- D. Collagen IV. Alkaloid

Choose the correct answer from the options given below :

- (a) **(1) A-III, B-IV, C-II, D-I**
- (b) **(2) A-III, B-II, C-IV, D-I**
- (c) **(3) A-I, B-II, C-III, D-IV**
- (d) **(4) A-IV, B-III, C-II, D-I**

102. Which of the following statements are correct regarding amino acids?

- A. They are substituted methanes.
- B. Serine is an aromatic amino acid.
- C. Valine is a neutral amino acid.
- D. Lysine is an acidic amino acid.

Choose the correct answer from the options given below:

- (b) **(2) A and C only**
- (c) **(3) B and C only**
- (d) **(4) A and B only**

103. Which one of the following disorders is caused by the substitution of Glutamic acid (Glu) by Valine (Val) at the sixth position of the beta globin chain of the haemoglobin molecule?

- (a) **(1) Thalassemia**
- (b) **(2) Haemophilia**
- (c) **(3) Sickle-cell anaemia**
- (d) **(4) Phenylketonuria**

104. Which one of the following is the site for active ribosomal RNA synthesis?

- (a) **(1) Kinetochore**
- (b) **(2) Centrosome**
- (c) **(3) Chromatin**
- (d) **(4) Nucleolus**

105. Which one of the following statements is **not true** about the universal rules of binomial nomenclature?

- (a) **(1) Both the words in a biological name, when handwritten, are separately underlined or printed in italics.**
- (b) **(2) Biological names are generally in Latin.**
- (c) **(3) The specific epithet in the biological name starts with a small letter.** NEET 2026 Page

- (d) **(4) The first word in the biological name represents the specific epithet, while the second component denotes the genus.**

106. Match List I with List II :

List I (Growth Regulator) List II (Function/Effect)

- A. 2,4-D I. Brewing industry
B. GA_3 II. Stimulation of stomatal closure
C. Kinetin III. Herbicide
D. ABA IV. Nutrient mobilisation

Choose the correct answer from the options given below :

- (a) **(1) A-IV, B-III, C-II, D-I**
(b) **(2) A-I, B-II, C-IV, D-III**
(c) **(3) A-I, B-IV, C-III, D-II**
(d) **(4) A-III, B-I, C-IV, D-II**

107. Match List I with List II :

List I List II

- A. Conjunctive tissue I. Specialised cells in the vicinity of guard cells
B. Casparian strips II. Endodermal cells rich in starch
C. Subsidiary cells III. Tissue between xylem and phloem
D. Starch sheath IV. Endodermal cells with suberin deposition

Choose the correct answer from the options given below :

- (a) **(1) A-III, B-IV, C-I, D-II**
(b) **(2) A-IV, B-III, C-I, D-II**
(c) **(3) A-IV, B-III, C-II, D-I**
(d) **(4) A-III, B-IV, C-II, D-I**

108. Which one of the following types of pollination brings genetically different types of pollen grains to the stigma?

- (a) **(1) Cleistogamy**
- (b) **(2) Autogamy**
- (c) **(3) Geitonogamy**
- (d) **(4) Xenogamy**

109. Heterophyllous development in response to environment is an example of which of the following phenomena?

- (a) **(1) Plasticity**
- (b) **(2) Dedifferentiation**
- (c) **(3) Redifferentiation**
- (d) **(4) Elasticity**

110. Which of the following statements are **not true** regarding restriction endonucleases?

- A. They are called molecular scissors.
- B. These are the enzymes responsible for restricting the growth of bacteriophages in *E. coli*.
- C. They cut the DNA only at the centre of the palindromic sites.
- D. They remove nucleotides only from the ends of DNA fragments.
- E. They recognise specific palindromic base-pair sequences.

Choose the answer from the options given below:

- (a) **(1) A and E only**
- (b) **(2) D and E only**
- (c) **(3) A and B only**

- (d) **(4) C and D only**

111. Arrange the following steps of DNA fingerprinting in a correct sequence.

- A. Isolation of DNA and its digestion by restriction endonucleases.
- B. Hybridisation using labelled VNTR probe.
- C. Transferring of separated DNA fragments to synthetic membranes.
- D. Detection of hybridised DNA fragments by autoradiography.
- E. Separation of DNA fragments by electrophoresis.

Choose the correct answer from the options given below:

(a) **(1) A, B, D, C, E**

(b) **(2) A, E, C, B, D**

(c) **(3) A, D, B, E, C**

(d) **(4) A, E, B, C, D**

112. Find the **incorrect** statement(s) about photosynthesis from the following:

- A. The water splitting complex is associated with PS I.
- B. C_4 plants use the C_3 pathway of CO_2 fixation as the main biosynthetic pathway.
- C. In C_4 plants, photorespiration does not occur.
- D. C_3 plants exhibit 'Kranz' anatomy.
- E. ATP synthesis in chloroplast occurs through chemiosmosis.

Choose the answer from the options given below:

(a) **(1) B and C only**

(b) **(2) B only**

(c) **(3) A and D only**

(d) **(4) B and E only**

113. Arrange the following steps of somatic hybridisation in a correct sequence.

- A. Digestion of cell walls.
- B. Isolation of naked protoplasts.
- C. Fusion of protoplasts to get hybrid protoplast.
- D. Isolation of single cells from two different varieties of plants.
- E. Growing of hybrid protoplast to form a new plant.

Choose the correct answer from the options given below:

(a) **(1) E, A, B, C, D**

(b) **(2) D, B, A, E, C**

(c) **(3) E, B, A, D, C**

(d) **(4) D, A, B, C, E**

114. The main function of bulliform cells in grasses is :

(a) **(1) to make the leaf impermeable to fungal spores.**

(b) **(2) to perform photosynthesis.**

(c) **(3) to minimize water loss during water stress.**

(d) **(4) to transport water.**

115. Arrange the following in the correct developmental sequence related to microsporogenesis :

- A. Microspore tetrads
- B. Sporogenous tissue
- C. Pollen grains
- D. Pollen mother cells

(a) **(1) D, A, C, B**

(b) **(2) B, D, C, A**

(c) **(3) A, D, C, B**

(d) **(4) B, D, A, C**

116. Which of the following is an *in situ* conservation method ?

- (a) **(1) Seed Bank**
- (b) **(2) Wildlife Safari Parks**
- (c) **(3) Botanical Gardens**
- (d) **(4) Sacred Groves**

117. Which one of the following is a triploid cell ?

- (a) **(1) Zygote**
- (b) **(2) Central cell**
- (c) **(3) Primary endosperm cell**
- (d) **(4) Synergid**

118. Since the origin and diversification of life on Earth, there have been five episodes of mass extinction of species. How is the sixth extinction, which is in progress, different from the previous episodes ?

- (a) **(1) The current species extinction rates are far lower than those in previous episodes.**
- (b) **(2) The current species extinction rate is nearly 10 times faster than that in previous episodes.**
- (c) **(3) The present net species extinction rate is zero.**
- (d) **(4) The present species extinction rates are 100 to 1000 times faster than in the pre human times.**

119. In the *lac* operon, the *z* gene codes for :

- (a) **(1) permease**
- (b) **(2) the repressor of *lac* operon**
- (c) **(3) transacetylase**
- (d) **(4) beta-galactosidase**

120. In racemose inflorescence,

- (a) **(1) flowers are borne in an acropetal succession**
- (b) **(2) flowers are solitary**
- (c) **(3) the growth is limited**
- (d) **(4) the main axis terminates in a flower**

121. The main criteria used for Five Kingdom Classification proposed by R.H. Whittaker (1969) included :

- A. Cell structure
- B. Body organization
- C. Presence of flagellum
- D. Reproduction
- E. Phylogenetic relationships

Choose the **correct** answer from the options given below :

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

122. "The Evil Quartet" of biodiversity loss includes which of the following ?

- (a) **(1) Habitat loss and fragmentation; over-exploitation; Alien species invasions; Co**

extinctions

(b) (2) Over-exploitation; Alien species invasions; Air pollution; Co-extinctions (c)

(3) Habitat loss and fragmentation; Air pollution; Water pollution; Co-extinctions (d)

(4) Over-exploitation; Alien species invasions; Water pollution; Co-extinctions

123. Identify the **correct** sequence of steps in each cycle of Polymerase Chain Reaction :

(a) (1) Annealing → Denaturation → Extension

(b) (2) Extension → Annealing → Denaturation

(c) (3) Denaturation → Extension → Annealing

(d) (4) Denaturation → Annealing → Extension

124. $2(C_{51}H_{98}O_6) + 145O_2 \rightarrow 102 CO_2 + 98 H_2O + \text{energy}$ The Respiratory Quotient (RQ) of a biomolecule used for respiration, as per the above equation, would be :

(a) (1) 1.0

(b) (2) Less than 0.7

(c) (3) Between 0.5 and 0.95

(d) (4) Between 1.25 and 2

125. Exploring molecular, genetic and species-level diversity for products of economic importance is called :

(a) (1) Biomagnification

(b) (2) Bioremediation

(c) (3) Biofortification

(d) **(4) Bioprospecting**

126. Match List I with List II :

List I List II

A. Decomposition I. Accumulation of dark coloured amorphous colloidal substance B.

Detritus II. Release of inorganic nutrients by the activity of microbes in soil C.

Mineralisation III. Breaking down of complex organic matter into inorganic substances D.

Humification IV. Dead remains of plants and animals including fecal matter

Choose the correct answer from the options given below :

(a) **(1) A-III, B-II, C-I, D-IV**

(b) **(2) A-I, B-II, C-III, D-IV**

(c) **(3) A-IV, B-III, C-I, D-II**

(d) **(4) A-III, B-IV, C-II, D-I**

127. Identify the correct statements about biomolecules. A. Lipids are generally water soluble. B. Proteins are polypeptides. C. Polysaccharides are long chains of sugars. D. Adenine and guanine are substituted pyrimidines. E. Almost all enzymes are proteins.

Choose the correct answer from the options given below :

(a) **(1) C, D and E only**

(b) **(2) B, C and E only**

(c) **(3) B, D and E only**

(d) **(4) A, B and C only**

128. In angiosperms, root hairs arise from which one of the following regions of the root ?

(a) **(1) The region of meristematic activity**

(b) **(2) The root cap zone**

(c) **(3) The region of maturation**

(d) **(4) The region of elongation**

129. Which one of the following is **not** a characteristic of plant cells in the phase of elongation ?

(a) **(1) Large conspicuous nuclei**

(b) **(2) Increased vacuolation**

(c) **(3) Cell enlargement**

(d) **(4) New cell wall deposition**

130. Which of the following floral formula is the correct floral formula of Solanaceae family ?

(a) **(1)** $\oplus \nsubseteq K_{(5)} C_{(5)} A_5 \underline{G}_{(2)}$

(b) **(2)** $\oplus \nsubseteq K_5 C_{(5)} A_5 \underline{G}_{(2)}$

(c) **(3)** $\oplus \nsubseteq K_5 C_5 A_5 \underline{G}_{(2)}$

(d) **(4)** $\oplus \nsubseteq K_{(5)} C_5 A_5 \underline{G}_{(2)}$

131. Which of the following statements are correct with reference to packaging of DNA helix?

A. Histones are organized to form a unit of eight molecules called histone octamer. B.

Histones are negatively charged basic proteins.

C. Histones are rich in the basic amino acid residues – lysine and arginine. D. The positively charged DNA is wrapped around the histone octamer to form nucleosome.

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E. The packaging of chromatin at higher levels requires an additional set of proteins called non-histone chromosomal proteins.

Choose the correct answer from the options given below :

(a) **(1) A, B and D only**

(b) **(2) B, D and E only**

(c) **(3) A, C and E only**

(d) **(4) C, D and E only**

132. Which of the following statements are correct with respect to DNA separation, isolation and visualization ?

A. The cutting of DNA is done by molecular scissors.

B. The DNA fragments separate according to their size in an agarose gel, upon electrophoresis.

C. The separated DNA fragments can be seen without staining when exposed to UV light. D. The separated DNA fragments, when stained with ethidium bromide, can be seen in visible light.

Choose the correct answer from the options given below :

(a) **(1) B and C only**

(b) **(2) B and D only**

(c) **(3) A and B only**

(d) **(4) A and D only**

133. Alpha-helix is found in which level of protein structure ?

(a) **(1) Tertiary structure**

(b) **(2) Quaternary structure**

(c) **(3) Secondary structure**

(d) **(4) Primary structure**

134. Match List I with List II :

List I List II

A. Productivity I. Gross primary productivity minus respiration losses B. Net primary productivity II. Rate of formation of new organic matter by consumers C. Gross primary productivity III. Rate of biomass production

D. Secondary productivity IV. Rate of production of organic matter during photosynthesis

Choose the correct answer from the options given below :

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

135. Match List I with List II :

List I (Placentation) List II (Example)

- A. Marginal I. Mustard
- B. Axile II. Pea
- C. Parietal III. Marigold
- D. Basal IV. Lemon

Choose the correct answer from the options given below :

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

Zoology

136. Choose the correct statements regarding frog's anatomy.

- A. Hepatic portal system is the special venous connection between liver and intestine.
- B. There are twelve pairs of cranial nerves arising from the brain.
- C. The ureters and oviducts open separately into the cloaca in female frogs.
- D. Hind-brain consists of cerebellum, medulla oblongata and optic lobes.
- E. Sinus venosus joins the right atrium of heart.

Choose the correct answer from the options given below:

- (1) B and D only
- (2) A, B and C only
- (3) A, C and E only
- (4) B and C only

137. The flightless bird with forelimbs modified as paddle-like structures suited for swimming is known as:

- (1) Aptenodytes
- (2) Neophron
- (3) Psittacula
- (4) Struthio

138. Male frogs can be distinguished from female frogs due to the presence of: A. Bulging eyes

B. Vocal sacs

C. Webbed digits in feet

D. Copulatory pad on first digit of fore limbs

E. Olive green-coloured skin with dark irregular spots

Choose the correct answer from the options given below:

- (1) B and D only
- (2) B and C only
- (3) A and B only
- (4) C and E only

139. A group of researchers procured some fish-like animals and upon investigation the

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following characters were observed:

A. Endoskeleton was made of cartilage.

B. Ectoparasitic; as they were found attached on fish skin with their circular sucking

mouth. C. Paired fins and scales are absent, but 7 pairs of gill slits were present. Which of the following species of animals did they consider to fit best with these characters?

- (1) Petromyzon sp.

- (2) Branchiostoma sp.
- (3) Scoliodon sp.
- (4) Exocoetus sp.

140. In humans, respiration occurs in the following steps. Arrange these steps in the correct order.

A. Diffusion of O_2 and CO_2 between blood and tissues

B. Diffusion of O_2 and CO_2 across alveolar membrane

C. Pulmonary ventilation by which atmospheric air is drawn in and CO_2 rich alveolar air is released out

D. Cellular respiration

E. Transport of gases by the blood

Choose the correct answer from the options given below:

- (1) A, B, C, D, E
- (2) E, A, C, D, B
- (3) C, B, E, A, D
- (4) C, A, B, E, D

141. Non-membrane bound cell organelles found in both prokaryotic and eukaryotic cells are:

- (1) Mitochondria
- (2) Lysosomes
- (3) Centrosomes
- (4) Ribosomes

142. Choose the correct statement regarding GIFT to overcome infertility. NEET 2026 Page 54

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(1) Ova collected from a female donor are transferred to the uterus of an infertile female. (2) Early embryos with up to 8 blastomeres are transferred into the fallopian tube of an infertile female.

(3) It is the transfer of an ovum collected from a donor into the fallopian tube of another female who cannot produce ovum but can provide suitable environment for fertilization and development.

(4) Early embryos with up to 8 blastomeres are transferred to the uterus of an infertile female.

143. Choose the correct statements regarding muscle contraction.

A. A motor neuron carries a signal sent by the Central Nervous System (CNS) to the sarcolemma of the muscle fibre.

B. The neural signal generates an action potential which causes the release of Ca^{++} into sarcoplasm.

C. Increase in Ca^{++} inactivates the actin for breaking cross bridges.

D. Actin binds to the myosin head to form a cross bridge.

E. Shortening of sarcomere takes place, by pulling actin filaments towards the centre of 'A' band.

Choose the correct answer from the options given below:

(1) C and E only

(2) A, B and E only

(3) A and B only

(4) C and D only

144. Insertion of a foreign DNA at BamHI site in an E. coli cloning vector pBR322 results in the loss of antibiotic resistance towards:

(1) Ampicillin and tetracycline

(2) Tetracycline

(3) Ampicillin

(4) Gentamycin

145. The specific receptors for neurotransmitters in a synapse are present on _____.

(1) Post-synaptic membrane

(2) Pre-synaptic membrane

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(3) Myelin sheath

(4) Schwann cell

146. Which of the following statements are correct with reference to human endoskeleton? A. Human skull is monocondylic.

- B. The joint between any two adjoining vertebrae is a cartilaginous joint. C. In human beings, the number of cervical vertebrae is seven. D. All ribs except the last 2 pairs are bicephalic. E. The occipital bone of skull is articulated with atlas vertebra.

Choose the correct answer from the options given below:

- (1) B, C and E only
(2) C, D and E only
(3) A, B and D only
(4) B and E only

147. The human protein named α -1-antitrypsin, obtained from transgenic animals, is used for the treatment of _____.

- (1) Alzheimer's disease
(2) Emphysema
(3) Cystic fibrosis
(4) Rheumatoid arthritis

148. Select the incorrect statements with reference to Rh grouping.

- A. Erythroblastosis foetalis is a condition observed having foetus with Rh^{-ve} blood and mother with Rh^{+ve} blood.
B. Rh antigen is observed on RBCs in the majority of human beings.
C. Before blood transfusion, Rh group should also be matched.
D. Rh incompatibility is observed when a pregnant mother is Rh^{-ve} and the foetus is Rh^{+ve} .
E. Erythroblastosis foetalis can be avoided by administering anti-Rh antibodies to the mother immediately after the delivery of the second child.

Choose the answer from the options given below:

- (1) B and C only

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- (2) A and B only
(3) A and E only
(4) C and D only

149. Match List I with List II

List I (Drug)		List II (Effect)	
A	Nicotine	I	Causes sense of euphoria and increased energy
B	Morphine	II	Stimulates adrenal gland to release catecholamines into blood circulation
C	Heroin	III	Effective sedative and painkiller
D	Cocaine	IV	A depressant, slows down body function

Choose the correct answer from the options given below:

- (1) A-II, B-III, C-IV, D-I
(2) A-III, B-II, C-I, D-IV
(3) A-III, B-II, C-IV, D-I
(4) A-II, B-III, C-I, D-IV

150. Match List I with List II

List I		List II	
A	Tetany	I	Inflammation of joints
B	Arthritis	II	Autoimmune disorder affecting neuromuscular junction
C	Myasthenia gravis	III	Wild contraction in muscle due to low Ca^{++} in body fluid
D	Muscular dystrophy	IV	Progressive degeneration of skeletal muscle

- (1) A-IV, B-III, C-II, D-I
(2) A-III, B-I, C-II, D-IV
(3) A-I, B-II, C-III, D-IV
(4) A-III, B-II, C-I, D-IV

151.

Match List I with List II:

List I	List II
--------	---------

A	Progestasert	I	Barrier made of rubber used by
B	Multiload	II	females Oral contraceptive
C	375	III	Hormone releasing IUD
D	Diaphragm	IV	Copper releasing IUD
	Saheli		

- (1) A-IV, B-II, C-I, D-III
 (2) A-III, B-IV, C-II, D-I
 (3) A-III, B-IV, C-I, D-II
 (4) A-IV, B-III, C-I, D-II

152. Select the correct statements regarding cell membrane in eukaryotic cell. A. Membrane of human RBCs has approximately 52% protein.

B. Major phospholipids are arranged in a bilayer.

C. Extensions of the plasma membrane into the cell form mesosomes.

D. Tails towards the inner part of lipids are hydrophobic and thus protected from aqueous medium.

E. Glycocalyx is present on the outer surface of the plasma membrane. Choose the correct answer from the options given below

:

- (1) C, D and E only
 (2) B, C and E only
 (3) A, C and E only
 (4) A, B and D only

153. Choose the correct statements regarding cell organelles and their inclusions. A. The endomembrane system includes Golgi complex, endoplasmic reticulum and mitochondria.

B. Rough endoplasmic reticulum bears ribosomes on its surface.

C. Both mitochondria and plastids have circular DNA.

D. A network of microtubules, microfilaments and intermediate filaments present in the cytoplasm is called cytoskeleton.

E. Mitochondrion is a single membrane-bound structure.

Choose the correct answer from the options given below :

- (1) A, B and C only
 (2) A and B only
 (3) C, D and E only
 (4) B, C and D only

154. Match List I with List II related to embryonic development at various months of pregnancy:

List I		List II	
A	The foetus movement starts and hair appears on the head	I	24 weeks of pregnancy
B	The foetus develops limbs and digits	II	20 weeks of pregnancy
C	The foetus develops external genital organs	III	8 weeks of pregnancy
D	The foetus body is covered with fine hair; eyelids separate and eyelashes are formed	IV	12 weeks of pregnancy

- (1) A-II, B-IV, C-III, D-I
 (2) A-III, B-II, C-IV, D-I
 (3) A-II, B-III, C-IV, D-I
 (4) A-IV, B-II, C-III, D-I

155. Which one of the following is an appropriate example of 'sexual deceit' ?

- (1) Sea anemone and clown fish
 (2) Female wasp and fig
 (3) *Ophrys* and bumblebee
 (4) Cuckoo and crow

156. Select the set of fishes which belong to the class Osteichthyes :

- (1) Saw fish, Fighting fish and Dog fish
 (2) Devil fish, Cuttlefish and Hagfish
 (3) Flying fish, Angel fish and Fighting fish

(4) Starfish, Hagfish and Cuttlefish

157. Match List I with List II with respect to chronology of evolution of life forms

: Choose the correct answer from the options given below :

List I		List II	
A	About 65	I	Jawless fish probably evolved
B	mya About	II	The dinosaurs suddenly disappeared from the
C	500 mya	III	earth Seaweeds and few plants probably
D	About 350	IV	existed Invertebrates were formed and became
	mya About		active
	320 mya		

Table 1: Match List I with List II

(1) A-II, B-IV, C-I, D-III

(2) A-I, B-II, C-III, D-IV

(3) A-III, B-IV, C-I, D-II

(4) A-II, B-IV, C-III, D-I

158. In which animal do haploid cells divide mitotically to produce gametes ?

(1) Male frogs

(2) Male honeybees

(3) Male grasshoppers

(4) Male earthworms

159. The WBC count of a person's blood sample is 8000/cu.mm. How many eosinophils and lymphocytes would be in the same blood sample approximately ?

(1) 300 - 500/cu.mm and 500 - 700/cu.mm, respectively

(2) 300 - 500/cu.mm and 1200 - 1500/cu.mm, respectively

(3) 100 - 120/cu.mm and 160 - 200/cu.mm, respectively

(4) 160 - 240/cu.mm and 1600 - 2000/cu.mm, respectively

160. What is the probability of having children with 'O' blood group, where both mother and father are heterozygous for 'A' and 'B' blood group, respectively ?

(1) 50%

(2) 75%

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(3) 0%

(4) 25%

161. Arrange the following events occurring in Renin-Angiotensin mechanism in the correct order :

A. Increase in blood pressure and Glomerular filtration rate.

B. Reabsorption of Na^+ and water from distal parts of tubule due to Aldosterone. C. Fall in Glomerular filtration rate.

D. Vasoconstriction by Angiotensin II and release of Aldosterone.

E. Renin converts Angiotensinogen into Angiotensin I, followed by Angiotensin

II. Choose the correct answer from the options given below :

(1) C, E, D, B, A

(2) A, C, E, B, D

(3) A, D, B, E, C

(4) C, A, B, D, E

162. Choose the correct statements regarding population interactions between two species. A. In both parasitism and commensalism, only one species benefits and the other species is harmed.

B. Both species benefit in mutualism.

C. Both species benefit in commensalism.

D. In parasitism, only one species benefits and the other species is harmed. E. In amensalism, one species is harmed and the other is unaffected.

Choose the correct answer from the options given below :

(1) B and E only

(2) B, D and E only

(3) A and B only

(4) A and D only

163. Spermatogonia undergo a series of cell divisions to produce sperms. Select the correct statements from the following :

A. Spermatogonia always undergo meiotic cell division.

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B. Primary spermatocytes divide mitotically to produce secondary spermatocytes. C.

Secondary spermatocytes, through their second meiotic division, produce haploid spermatids.

D. Spermatids produce spermatozoa through mitosis.

E. Spermatids transform into spermatozoa by spermiogenesis.

Choose the correct answer from the options given below :

(1) C and E only

(2) A, C and E only

(3) B, C and D only

(4) A and E only

164. The following are the stages of life cycle of *Plasmodium*. Arrange the stages in the proper order.

A. The parasites reproduce asexually in RBCs, bursting the cells.

B. The parasites reproduce asexually in liver cells, bursting the cells and releasing into blood. C. Gametocytes develop in RBCs.

D. Sporozoites reach the liver through the blood.

E. Female mosquito injects sporozoites into humans during bite.

Choose the correct answer from the options given below :

(1) E, D, B, A, C

(2) C, A, B, D, E

(3) A, B, C, D, E

(4) E, C, D, B, A

165. Choose the correct answer from the options given below :

List I (Bioactive molecules)	List II (Importance)
------------------------------	----------------------

A	Streptokinase	I	Immunosuppressive agent
B	Statins	II	Removal of clots from the blood
C	Lipases	III	vessels Blood cholesterol-lowering
D	Cyclosporin A	IV	agent Detergent formulations

Table 2: Match List I with List II

(1) A-II, B-III, C-I, D-IV

(2) A-IV, B-III, C-II, D-I

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(3) A-II, B-III, C-IV, D-I

(4) A-III, B-II, C-IV, D-I

166. Which of the following is *not* an example of convergent evolution?

(1) Wings of butterflies and birds

(2) Flippers of penguins and dolphins

(3) Fore limbs of whales and bats

(4) Eyes of octopuses and mammals

167. What is the reason behind production of large holes in 'Swiss Cheese' ?

(1) The production of large amount of CO_2 and H_2 by *Trichoderma*

polysporum (2) The production of large amount of CO_2 by *Clostridium butylicum*

(3) The production of large amount of CO_2 and H_2 by lactic acid bacteria called

Lactobacillus (4) The production of large amount of CO_2 by *Propionibacterium sharmanii*

168. Choose the correct answer from the options given below :

List I		List II	
A	Cortisol	I	Stimulates the formation of alveoli in mammary
B	Aldosterone	II	glands Produces anti-inflammatory reactions
C	Cholecystoki	III	Stimulates reabsorption of Na^+ and water from renal
D	nin	IV	tubule Stimulates secretion of pancreatic enzymes and
	Progesteron		bile juice
	e		

(1) A-III, B-II, C-IV, D-I

- (2) A-IV, B-II, C-I, D-III
- (3) A-II, B-III, C-I, D-IV
- (4) A-II, B-III, C-IV, D-I

169. Arrange the following cell layers/structures around the female gamete from outer to inner side :

- A. Zona pellucida**
- B. Perivitelline space**
- C. Corona radiata**
- D. Plasma membrane of ovum**

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D. Plasma membrane of ovum

Choose the correct answer from the options given below :

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

170. Which of the following equations depicts Verhulst-Pearl logistic population growth ?

$$\frac{dN}{dt} = rN \frac{K-N}{K}$$

(1) $\frac{dN}{dt} = rN$ (2) $\frac{dN}{dt} = rN \frac{K}{K-N}$

$$\frac{dN}{dt} = rN \frac{K-N}{K}$$

(3) $\frac{dN}{dt} = rN \frac{K}{K-N}$

(4) $\frac{dN}{dt} = rN \frac{K+N}{K}$

171. The toxin proteins isolated from *Bacillus thuringiensis*, coded by which of the following genes would control cotton bollworms and corn borer, respectively ?

- (1) *cryIAc* and *cryIAb*
- (2) *cryIIAb* and *cryIAc*
- (3) *cryIAc* and *cryIIAb*
- (4) *cryIAc* and *cryIIAb*

172. The JGA (Juxta Glomerular Apparatus) is a special sensitive region formed by cellular modifications in _____ related to the same nephron.

- (1) Proximal convoluted tubule and afferent renal arteriole
- (2) Distal convoluted tubule and efferent renal arteriole
- (3) Proximal convoluted tubule and efferent renal arteriole
- (4) Distal convoluted tubule and afferent renal arteriole

173. Choose the correct answer from the options given below :

- (1) A-III, B-II, C-I, D-IV
- (2) A-I, B-II, C-IV, D-III

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List I		List II	
A	Molluscs	I	Pulmonary respiration only
B	Reptiles	II	Branchial respiration
C	Adult	III	Cellular respiration
D	amphibians Amoeba	IV	Pulmonary and Cutaneous respiration

Table 3: Match List I with List II

- (3) A-II, B-I, C-III, D-IV
- (4) A-II, B-I, C-IV, D-III

174. The sixth mutant codon of beta globin gene causing polymerization of Haemoglobin and change in RBC shape is _____

- (1) CAG
- (2) GUG
- (3) AUG
- (4) GAG

175. In a population of a grasshopper species, the chromosome number of some members is 23 and some other members possess 24 chromosomes. The 23 and 24

chromosome-bearing members in this species are _____

- (1) females and males, respectively
- (2) all males
- (3) males and females, respectively
- (4) all females

176. Select the incorrect statements from the following :

- A. Digestive system in Platyhelminthes is incomplete.**
- B. Bilateral symmetry is a characteristic feature of adult Echinoderms.**
- C. Pseudocoelom is possessed by Aschelminthes.**
- D. Notochord is persistent throughout life in the class Chondrichthyes.**
- E. Members of class Reptilia maintain a constant body temperature.**

Choose the answer from the options given below :

- (1) A and C only
- (2) B and E only

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- (3) C and D only
- (4) B and D only

177. The following reaction depicts the activity of a particular class of

enzymes : $X \rightarrow Y$



(Substrate) (Product)

Identify the enzyme class 'E' from the following options :

- (1) Ligases
- (2) Transferases
- (3) Lyases
- (4) Isomerases

178. Ecological pyramids represent the relationship between the organisms at different trophic levels and they are generally inverted for :

- (1) Pyramid of biomass in grassland
- (2) Pyramid of biomass in sea
- (3) Pyramid of number in grassland
- (4) Pyramid of energy in pond ecosystem

179. Evolution of human appears parallel to the progressive development of brain and language skills. As such, the evolution of individual species in the sequence of their appearance is :

- (1) *Ramapithecus* → *Homo habilis* → *Homo erectus* → Neanderthal → *Homo sapiens*
- (2) *Homo habilis* → *Homo erectus* → *Ramapithecus* → Neanderthal → *Homo sapiens*
- (3) *Homo sapiens* → *Ramapithecus* → *Homo habilis* → Neanderthal → *Homo erectus*
- (4) Neanderthal → *Ramapithecus* → *Homo habilis* → *Homo erectus* → *Homo sapiens*

180. Choose the correct answer from the options given below :

- (1) A-I, B-II, C-III, D-IV

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List I (Respiratory Volume)		List II (Capacity in mL)	
A	ERV (Expiratory Reserve	I	2500 – 3000 mL
B	Volume) RV (Residual	II	500 mL
C	Volume)	III	1000 – 1100 mL
D	IRV (Inspiratory Reserve	IV	1100 – 1200 mL
	Volume) TV (Tidal Volume)		

Table 4: Match List I with List II

- (2) A-III, B-IV, C-I, D-II
- (3) A-III, B-I, C-IV, D-II
- (4) A-I, B-III, C-II, D-IV

