CODE – Q6



FINAL NEET(UG)-2024 (EXAMINATION)

(Held On Sunday 5th MAY, 2024)

PHYSICS

Physics : Section-A (Q. No. 1 to 35)

- 1. A bob is whirled in a horizontal plane by means of a string with an initial speed of ω rpm. The tension in the string is T. If speed becomes 2ω while keeping the same radius, the tension in the string becomes : (1) T (2) 4T
 - (3) $\frac{T}{4}$ (4) $\sqrt{2}T$

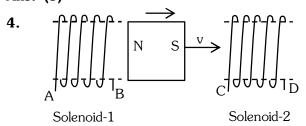
Ans. (2)

- 2. A particle moving with uniform speed in a circular path maintains :
 - (1) constant velocity
 - (2) constant acceleration.
 - (3) constant velocity but varying acceleration
 - (4) varying velocity and varying acceleration

Ans. (4)

3. A logic circuit provides the output Y as per the following truth table :

The expression for the output Y is (1) $A.B + \overline{A}$ (2) $A.\overline{B} + \overline{A}$ (3) \overline{B} (4) B



In the above diagrams, a strong bar magnet is moving towards solenoid-2 from solenoid-1. The direction of induced current in solenoid-1 and that in solenoid-2, respectively, are through the directions : (1) AB and DC (2) BA and CD

(1) AB and DC (3) AB and CD Ans. (1)

- (2) BA and CD (4) BA and DC
- (4) BA and

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(Take
$$\frac{1}{4\pi \epsilon_0} = 9 \times 10^9 \text{ SI Units}$$
)

Reason (R) :- $V = \pm \frac{2P}{4\pi \epsilon_0 r^2}$, where r is the

distance of any axial point, situated at 2 m from the centre of the dipole.

In the light of the above statements, choose the correct answer from the options given below :

(1) Both A and R are true and R is the correct explanation of A.

(2) Both A and R are true and R is NOT the correct explanation of A.

(3) A is true but R is false.

(4) A is false but R is true.

Ans. (3)

6. Match List-I with List-II

List-I	List-II
(Material)	(Susceptibility (χ))
A. Diamagnetic	I. $\chi = 0$
B. Ferromagnetic	II. $0 > \chi \ge -1$
C. Paramagnetic	III. χ >>1
D. Non-Magnetic	IV. $0 < \chi < \varepsilon$ (a small
	positive number)

Choose the correct answer from the options given below:

(1) A–II, B–III, C–IV, D–I

(2) A–II, B–I, C–III, D–IV

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



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7. In a uniform magnetic field of 0.049 T, a magnetic needle performs 20 complete oscillations in 5 seconds as shown. The moment of inertia of the needle is 9.8×10^{-6} kg m². If the magnitude of magnetic moment of the needle is $x \times 10^{-5}$ Am²; then the value of 'x' is :



(1) $5 \pi^2$ (2) $128 \pi^2$ (3) $50 \pi^2$ (4) $1280 \pi^2$

Ans. (4)

8. In a ideal transformer, the turns ratio $\frac{N_p}{N_s} = \frac{1}{2}$. The

ratio $V_{\mbox{\tiny s}}:V_{\mbox{\tiny p}}$ is equal to (the symbols carry their usual meaning) :

(1) 1 : 2	(2) 2 : 1
(3) 1 : 1	(4) 1 : 4

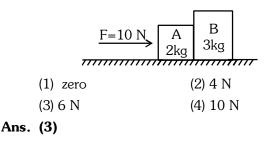
Ans. (2)

9. In a vernier calipers, (N+1) divisions of vernier scale coincide with N divisions of main scale. If 1 MSD represents 0.1 mm, the vernier constant (in cm) is :

(1) $\frac{1}{10N}$	(2) $\frac{1}{100(N+1)}$
(3) 100N	(4) 10(N+1)

Ans. (2)

10. A horizontal force 10 N is applied to a block A as shown in figure. The mass of blocks A and B are 2 kg and 3 kg, respectively. The blocks slide over a frictionless surface. The force exerted by block A on block B is :



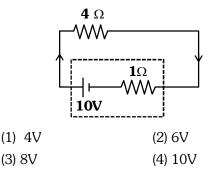
11. If $x = 5\sin\left(\pi t + \frac{\pi}{3}\right)m$ represents the motion of a

particle executing simple harmonic motion, the amplitude and time period of motion respectively, are :

- (1) 5 cm, 2 s (2) 5 m, 2 s
- (3) 5 cm, 1 s (4) 5 m, 1 s

Ans. (2)

12. The terminal voltage of the battery, whose emf is 10V and internal resistance 1Ω , when connected through an external resistance of 4Ω as shown in the figure.



Ans. (3)

13. Given below are two statements :

Statement I : Atoms are electrically neutral as they contain equal number of positive and negative charges.

Statement II: Atoms of each element are stable and emit their characteristic spectrum.

In the light of the above statements, choose the *most appropriate* answer from the options given below :

- (1) Both Statement I and Statement II are correct.
- (2) Both Statement I and Statement II are incorrect.
- (3) Statement I is correct but Statement II is incorrect.
- (4) Statement I is incorrect but Statement II is correct.

Ans. (3)

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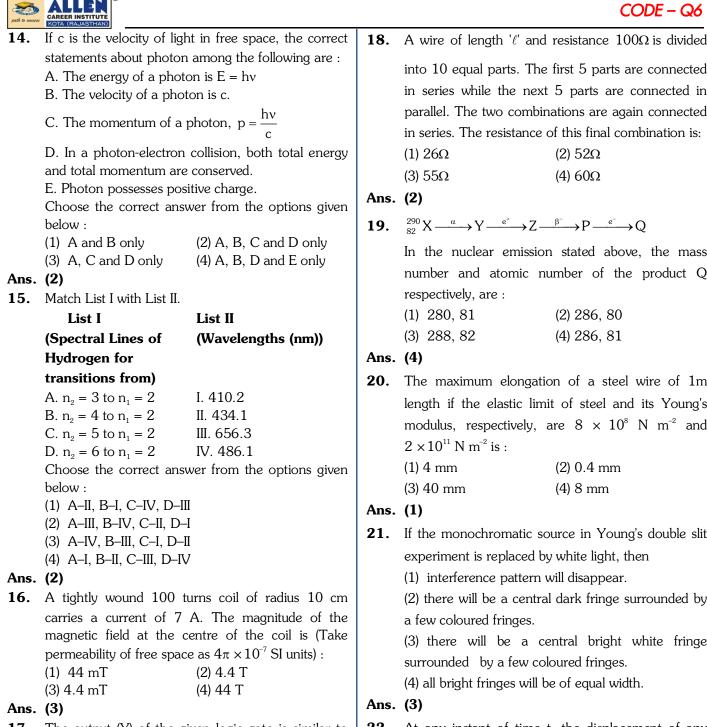


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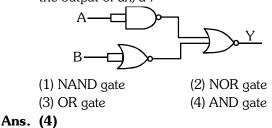
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17. The output (Y) of the given logic gate is similar to the output of an/a:





in series while the next 5 parts are connected in parallel. The two combinations are again connected in series. The resistance of this final combination is: (1) 26Ω (2) 52Ω $(3) 55\Omega$ (4) 60Ω Ans. (2) $^{290}_{\circ\circ\circ}X \xrightarrow{\alpha} Y \xrightarrow{e^+} Z \xrightarrow{\beta^-} P \xrightarrow{e^-} Q$ In the nuclear emission stated above, the mass number and atomic number of the product Q respectively, are : (1) 280, 81 (2) 286, 80 (3) 288, 82 (4) 286, 81 Ans. (4) The maximum elongation of a steel wire of 1m length if the elastic limit of steel and its Young's modulus, respectively, are 8×10^8 N m⁻² and $2 \times 10^{11} \text{ N m}^{-2} \text{ is}$: (1) 4 mm (2) 0.4 mm (3) 40 mm (4) 8 mm Ans. (1) If the monochromatic source in Young's double slit experiment is replaced by white light, then (1) interference pattern will disappear. (2) there will be a central dark fringe surrounded by a few coloured fringes. (3) there will be a central bright white fringe surrounded by a few coloured fringes. (4) all bright fringes will be of equal width. Ans. (3) 22. At any instant of time t, the displacement of any particle is given by 2t - 1 (SI unit) under the influence of force of 5N. The value of instantaneous power is (in SI unit) :

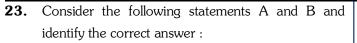
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1	- (,	
(1) 10			(2) 5
(3) 7			(4) 6

Ans. (1)

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$$(I) \qquad (I) \qquad (I) \qquad (I) \qquad (II) \qquad (III) \qquad (III)$$

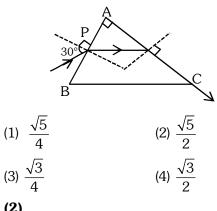
- A. For a solar-cell, the I-V characteristics lies in the IV quadrant of the given graph.
- B. In a reverse biased pn junction diode, the current measured in (μA) , is due to majority charge carriers.
- (1) A is correct but B is incorrect.
- (2) A is incorrect but B is correct.
- (3) Both A and B are correct.
- (4) Both A and B are incorrect.

Ans. (1)

- 24. Two bodies A and B of same mass undergo completely inelastic one dimensional collision. The body A moves with velocity v_1 while body B is at rest before collision. The velocity of the system after collision is v_2 . The ratio $v_1 : v_2$ is :
 - (1) 1 : 2(2) 2 : 1(3) 4 : 1 (4) 1:4

Ans. (2)

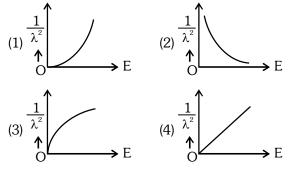
25. A light ray enters through a right angled prism at point P with the angle of incidence 30° as shown in figure. It travels through the prism parallel to its base BC and emerges along the face AC. The refractive index of the prism is :



Ans. (2)

The graph which shows the variation of **26**. and

> its kinetic energy, E is (where λ is de Broglie wavelength of a free particle) :



(4) Ans.

27. The quantities which have the same dimensions as those of solid angle are :

- (1) strain and angle
- (2) stress and angle
- (3) strain and arc
- (4) angular speed and stress

Ans. (1)

- **28**. An unpolarised light beam strikes a glass surface at Brewster's angle Then
 - (1) the reflected light will be partially polarised.
 - (2) the refracted light will be completely polarised.
 - (3) both the reflected and refracted light will be completely polarised.

(4) the reflected light will be completely polarised but the refracted light will be partially polarised.

Ans. (4)

- 29. The moment of inertia of a thin rod about an axis passing through its mid point and perpendicular to the rod is 2400 g cm². The length of the 400 g rod is nearly :
 - (2) 17.5 cm (1) 8.5 cm

(3) 20.7 cm (4) 72.0 cm

Ans. (1)

- **30.** A thin flat circular disc of radius 4.5 cm is placed gently over the surface of water. If surface tension of water is 0.07 Nm⁻¹, then the excess force required to take it away from the surface is :
 - (1) 19.8 mN (2) 198 N
 - (3) 1.98 mN (4) 99 N

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Ans. (1)

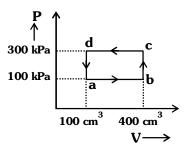


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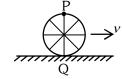


31. A thermodynamic system is taken through the cycle abcda. The work done by the gas along the path bc is :



(1) zero (2) 30 J (3) –90 J (4) –60 J Ans. (1)

32. A wheel of a bullock cart is rolling on a level road as shown in the figure below. If its linear speed is *v* in the direction shown, which one of the following options is correct (P and Q are any highest and lowest points on the wheel, respectively) ?



- (1) Point P moves slower than point Q.
- (2) Point P moves faster than point Q.
- (3) Both the points P and Q move with equal speed.
- (4) Point P has zero speed.

Ans. (2)

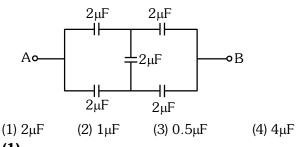
33. The mass of a planet is $\frac{1}{10}$ th that of the earth and

its diameter is half that of the earth. The acceleration due to gravity on that planet is :

- (1) 19.6 m s⁻² (2) 9.8 m s⁻²
- (3) 4.9 m s^{-2} (4) 3.92 m s^{-2}

Ans. (4)

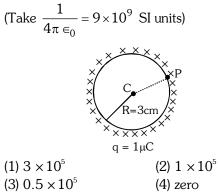
34. In the following circuit, the equivalent capacitance between terminal A and terminal B is :



Ans. (1)



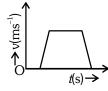
35. A thin spherical shell is charged by some source. The potential difference between the two points C and P (in V) shown in the figure is :



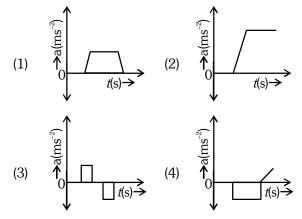
Ans. (4)

Physics : Section-B (Q. No. 36 to 50)

36. The velocity (v) – time (t) plot of the motion of a body is shown below :



The acceleration (a) – time (t) graph that best suits this motion is :



Ans. (3)

37. If the mass of the bob in a simple pendulum is increased to thrice its original mass and its length is made half its original length, then the new time period of oscillation is $\frac{x}{2}$ times its original time period. Then the value of x is : (1) $\sqrt{3}$ (2) $\sqrt{2}$ (3) $2\sqrt{3}$ (4) 4

Ans. (2)

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38. A 10 μ F capacitor is connected to a 210 V, 50 Hz source as shown in figure. The peak current in the circuit is nearly ($\pi = 3.14$) :

$$C = 10 \ \mu F$$

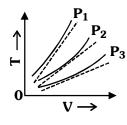
210*V*, 50 Hz

(2) 0.93 A

- (3) 1.20 A
- (4) 0.35 A

Ans. (2)

39. The following graph represents the T-V curves of an ideal gas (where T is the temperature and V the volume) at three pressures P₁, P₂ and P₃ compared with those of Charles's law represented as dotted lines.



Then the correct relation is :

(1)
$$P_3 > P_2 > P_1$$

(2) $P_1 > P_3 > P_2$
(3) $P_2 > P_1 > P_3$
(4) $P_1 > P_2 > P_3$

Ans. (4)

40. An iron bar of length L has magnetic moment M. It is bent at the middle of its length such that the two arms make an angle 60° with each other. The magnetic moment of this new magnet is : °

(3) 2M

(1) M (2)
$$\frac{N}{2}$$

(4)
$$\frac{M}{\sqrt{3}}$$

Ans. (2)



41. The minimum energy required to launch a satellite of mass *m* from the surface of earth of mass *M* and radius *R* in a circular orbit at an altitude of 2R from the surface of the earth is :

(1)
$$\frac{5GmM}{6R}$$
 (2) $\frac{2GmM}{3R}$
(3) $\frac{GmM}{2R}$ (4) $\frac{GmM}{3R}$

Ans. (1)

42. A parallel plate capacitor is charged by connecting it to a battery through a resistor. If I is the current in the circuit, then in the gap between the plates :

(1) there is no current.

(2) displacement current of magnitude equal to I flows in the same direction as I.

(3) displacement current of magnitude equal to I flows in a direction opposite to that of I.

(4) displacement current of magnitude greater than I flows but can be in any direction.

Ans. (2)

- **43.** The property which is not of an electromagnetic wave travelling in free space is that :
 - (1) they are transverse in nature.
 - (2) the energy density in electric field is equal to energy density in magnetic field.
 - (3) they travel with a speed equal to $\frac{1}{\sqrt{\mu_0 \in_0}}$
 - (4) they originate from charges moving with uniform speed.

Ans. (4)

44. A metallic bar of Young's modulus, 0.5×10^{11} N m⁻² and coefficient of linear thermal expansion 10^{-5} °C⁻¹, length 1 m and area of cross-section 10^{-3} m² is heated from 0°C to 100°C without expansion or bending. The compressive force developed in it is:

(3) 100×10^3 N

(1) 5×10^3 N

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(2) 50×10^3 N (4) 2×10^3 N

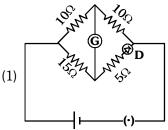
Ans. (2)

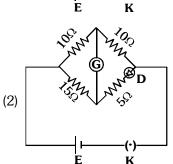
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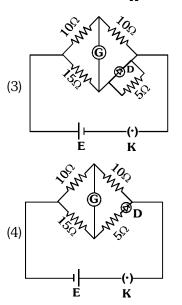
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Choose the correct circuit which can achieve the 45. bridge balance.







Ans. (1)

- **46.** A sheet is placed on a horizontal surface in front of a strong magnetic pole. A force is needed to :
 - A. hold the sheet there if it is magnetic.
 - B. hold the sheet there if it is non-magnetic.
 - C. move the sheet away from the pole with uniform velocity if it is conducting.
 - D. move the sheet away from the pole with uniform velocity if it is both, non-conducting and non-polar. Choose the correct statement(s) from the options given below:
 - (1) B and D only (3) A, C and D only
- (2) A and C only (4) C only
- Ans. (2)



- 47. If the plates of a parallel plate capacitor connected to a battery are moved close to each other, then
 - A. the charge stored in it, increases.
 - B. the energy stored in it, decreases.
 - C. its capacitance increases.
 - D. the ratio of charge to its potential remains the same.

E. the product of charge and voltage increases.

Choose the most appropriate answer from the options given below :

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

Ans. (2)

48. Two heaters A and B have power rating of 1 kW and 2 kW, respectively. Those two are first connected in series and then in parallel to a fixed power source. The ratio of power outputs for these two cases is :

(1) 1 :1	(2) 2 : 9
(3) 1 : 2	(4) 2 : 3

Ans. (2)

49. A small telescope has an objective of focal length 140 cm and an eye piece of focal length 5.0 cm. The magnifying power of telescope for viewing a distant object is :

(1) 34	(2) 28
(3) 17	(4) 32

Ans. (2)

50. A force defined by $F = \alpha t^2 + \beta t$ acts on a particle at a given time t. The factor which is dimensionless, if α and β are constants, is :

(1)
$$\frac{\beta t}{\alpha}$$
 (2) $\frac{\alpha t}{\beta}$
(3) $\alpha\beta t$ (4) $\frac{\alpha\beta}{\beta}$

$$(4)\frac{\alpha p}{t}$$

Ans. (2)

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CODE - Q6



	CHEMISTRY		TEST PAPER W	ITH ANSWER
	Chemistry : Section-A (Q. No. 51 to 85)'Spin only' magnetic moment is same for which ofthe following ions ?A. Ti ³⁺ B. Cr^{2+} C. Mn ²⁺ D. Fe^{2+} E. Sc ³⁺ D. Fe^{2+} Choose the most appropriate answer from theoptions given below :(1) B and D only(2) A and E only(3) B and C only(4) A and D only	53.	Group-16 elements follo $H_2O > H_2Te > H_2Se > H_2$ Statement-II : On the H_2O is expected to have the other members of presence of extensive higher boiling point. In the light of the above <i>correct</i> answer from the (1) Both statement-I and (2) Both statement-I and	biling point of hydrides w the order H ₂ S. e basis of molecular mas we lower boiling point that the group but due to the H-bonding in H ₂ O, it h ove statements, choose the options given below : Statement-II are true. Statement-II are false. e but Statement-II is false.
6	(4) A and D only (1)	Ans.		
.	The most stable carbocation among the following is :	54.	Match List I with List II.	List II
	(1) (1)	Ans. 55.	below : (1) A-I, B-IV, C-II, D-III (3) A-III, B-IV, C-I, D-II	(4) A-II, B-III, C-IV, D-I nelium atoms is in :
	(4) (4)	Ans.		

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the following transform			
the following transform	nation		NOT equal ?
СН. СН	- CH.		(1) $PCl_{5(g)} \rightleftharpoons PCl$
			(2) $H_{2(g)} + I_{2(g)} \rightleftharpoons$
	\rightarrow CH ₂ –CH ₂ –CHO		(3) $CO_{(g)} + H_2O_{(g)}$
(1) (i) H ₂ O/H ⁺ (ii) CrO	3		(4) $2BrCl_{(g)} \rightleftharpoons Br$
(2) (i) BH_3 (ii) H_2O_2 /	ΘH (iii) PCC	Ans.	(1)
(3) (i) BH ₃ (ii) H ₂ O ₂ / (OH (iii) Alk. KMnO₄(iv) H₃O [⊕]	60.	Match List I with L
			List I
(2)			Quantum Numb
Match List I with List I	I.		A. m_{ℓ}
List-I	List-II		B. m _s
(Process)	(Conditions)		C. <i>l</i>
A. Isothermal	I. No heat exchange		D. <i>n</i>
B. Isochoric	II. Carried out at constant		Chasse the serve
process	temperature		Choose the correct below :
C. Isobaric process	III. Carried out at constant		(1) A-I, B-III, C-II,
	volume		(2) A-III, B-IV, C-I
			(3) A-III, B-IV, C-I
-	-		(4) A-II, B-I, C-IV,
	nswer from the options given	Ans.	
	T	61.	Given below are tw
•••••			Statement I : A
			Crafts alkylation re
			_
(4)			Statement II : A
Which one one of	the following alcohols reacts		Gabriel synthesis.
-			In the light of th
			correct answer fro
			(1) Both Stateme
CE	1 ₃		(2) Both Stateme
(3) $CH_3 - CH - CH_3$	₂ OH		(3) Statement I
CH3			false.
CH ₃			(4) Statement I i
(4) $CH_3 - C - OH$			true.
I CH ₃		Ans.	(1)
(4)			
	(1) (i) H_2O/H^+ (ii) CrO (2) (i) BH_3 (ii) H_2O_2/P (3) (i) BH_3 (ii) H_2O_2/P (4) (i) H_2O/H^+ (ii) PCC (2) Match List I with List I List-I (Process) A. Isothermal process B. Isochoric process C. Isobaric process D. Adiabatic process Choose the correct a below : (1) A-IV, B-III, C-II, D-IV (2) A-IV, B-II, C-III, D-IV (3) A-I, B-II, C-III, D-IV (4) A-II, B-III, C-IV, D- (4) Which one one of instantaneously with L (1) $CH_3 - CH_2 - CH$ (2) $CH_3 - CH_2 - CH$ (3) $CH_3 - CH_2 - CH$ (4) $CH_3 - CH_2 - CH$ (5) $CH_3 - CH_3$ (4) $CH_3 - CH_3$	Match List I with List II. List-I List-II (Process) (Conditions) A. Isothermal I. No heat exchange process B. Isochoric II. Carried out at constant process III. Carried out at constant process III. Carried out at constant volume D. Adiabatic IV. Carried out at constant process pressure Choose the correct answer from the options given below : (1) A-IV, B-III, C-II, D-I (2) A-IV, B-II, C-III, D-I (2) A-IV, B-II, C-III, D-I (3) A-I, B-II, C-III, D-IV (4) A-II, B-III, C-IV, D-I (4) Which one one of the following alcohols reacts instantaneously with Lucas reagent ? (1) $CH_3 - CH_2 - CH_2 - CH_2OH$ (2) $CH_3 - CH_2 - CH_2 - OH$ (4) $CH_3 - CH_2 - CH_2OH$ (4) $CH_3 - CH_2 - CH_2OH$ (4) $CH_3 - CH_2 - CH_2OH$ (4) $CH_3 - CH_3$ (4) $CH_3 - CH_3$	$ \begin{array}{c} \begin{tabular}{ c c c c } \hline & & & \\ \hline \hline & & \\ \hline & & \\ \hline \hline \hline & & \\ \hline \hline & & \\ \hline \hline \hline \hline$

h of the following equilibria, K_p and K_c are qual? $I_{5(g)} \rightleftharpoons PCI_{3(g)} + CI_{2(g)}$ $I_{(g)} + I_{2(g)} \rightleftharpoons 2HI_{(g)}$ $O_{(g)} + H_2O_{(g)} \rightleftharpoons CO_{2(g)} + H_{2(g)}$ $rCl_{(g)} \rightleftharpoons Br_{2(g)} + Cl_{2(g)}$ List I with List II. tΙ List II um Number Information provided I. shape of orbital II. size of orbital III. orientation of orbital IV. orientation of spin of electron

the correct answer from the options given

- B-III, C-II, D-IV I, B-IV, C-I, D-II , B-IV, C-II, D-I B-I, C-IV, D-III
- elow are two statements :

ent I : Aniline does not undergo Friedellkylation reaction

ent II : Aniline cannot be prepared through synthesis.

light of the above statements, choose the answer from the options given below :

- th Statement I and Statement II are true.
- h Statement I and Statement II are false.

tement I is correct but Statement II is

tement I is incorrect but Statement II is

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Intramolecular hydrogen bonding is present in : 62.

Ans. (1)

- **63**. On heating, some solid substances change from solid to vapour state without passing through liquid state. The technique used for the purification of such solid substances based on the above principle is known as :
 - (1) Crystallization
 - (2) Sublimation
 - (3) Distillation
 - (4) Chromatography

Ans. (2)

- **64**. In which of the following processes entropy increases ?
 - A. A liquid evaporates to vapour

B. Temperature of a crystalline solid lowered from 130 K to 0K.

C. $2NaHCO_{3(s)} \rightarrow Na_2CO_{3(s)} + CO_{2(g)} + H_2O_{(g)}$

D. $Cl_{2(q)} \rightarrow 2 Cl_{(q)}$

Choose the correct answer from the options given below :

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

Ans. (3)

Among Group 16 elements, which one does NOT **65**. show -2 oxidation state ? (1) O $(2) S_{0}$

(1) O	(2) 00
(3) Te	(4) Po

Ans. (4)



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66. Match List-I with List-II.

	T : T	I :			
	List-I	List-II			
	(Conversion)	(Number of			
(^	1 = 1 = 1 = 1 = 0	Faraday required)			
	A) 1 mol of H ₂ O to O ₂ B) 1 mol of MnO ₄ - to Mn ²⁺	(I) 3F (II) 2F			
	C) 1.5 mole of Ca from	(II) 1F			
	molten $CaCl_2$	(111) 11			
(E) 1 mol of FeO to Fe_2O_3	(IV) 5F			
	(1) A-II, B-IV, C-I, D-III				
	(2) A-III, B-IV, C-I, D-II				
	(3) A-II, B-III, C-I, D-IV				
	(4) A-III, B-IV, C-II, D-I				
Ans.	(1)				
67.		ements in increasing order			
	of electronegativity.				
	N, O, F, C, Si				
		ver from the options given			
	below :	en menn me opnene 3.ren			
	(1) Si $<$ C $<$ N $<$ O $<$ F	(2) Si < C < O < N < F			
	(3) $O < F < N < C < Si$				
Ans.		(-)			
68.		cular formula of C_6H_{14} has			
00.	two tertiary carbons. Its II				
	(1) n-hexane	(2) 2-methylpentane			
	(3) 2, 3-dimethylbutane				
Ans.		(1) <i>2</i> , <i>2</i> differingibulation			
69 .					
09.	5	to			
	(1) aqueous copper sulphate				
	(2) alkaline copper sulphate				
	(3) alkaline solution of sodium potassium tartrate				
	(Rochelle's salt)				
•	(4) aqueous sodium citrate				
Ans.					
70.	Activation energy of any calculated if one knows th	chemical reaction can be			
	(1) rate constant at stand				
	(2) probability of collision	±			
	(3) orientation of reactant (4) rate constant at two di	molecules during collision. fferent temperatures.			

(4) rate constant at two different temperatures.

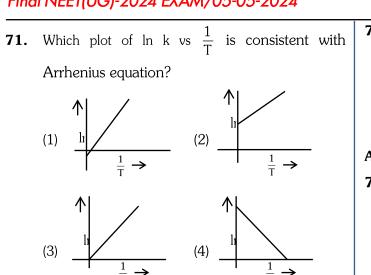
Ans. (4)

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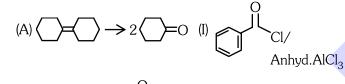


Ans. (4)

Match List I with List II. 72.

> List I (Reaction)

List II (Reagents/Condition)



(II) CrO₃ (III) KMnO₄/KOH, Δ

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(IV) (i) O_3 (ii) $Zn-H_2O$ Choose the correct answer from the options given

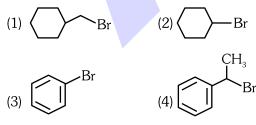
below : (1) A-IV, B-I, C-III, D-II (2) A-III, B-I, C-II, D-IV

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

Ans. (3)

(D)

The compound that will undergo S_N^1 reaction with 73. the fastest rate is :



Ans. (4)



- 74. Which reaction is **NOT** a redox reaction ?
 - (1) $Zn + CuSO_4 \rightarrow ZnSO_4 + Cu$
 - (2) 2 KClO₃ + $I_2 \rightarrow$ 2 KIO₃ + Cl₂
 - (3) $H_2 + Cl_2 \rightarrow 2 HCl$
 - (4) $BaCl_2 + Na_2SO_4 \rightarrow BaSO_4 + 2NaCl$

Ans. (4)

75. Given below are two statements :

> Statement I : The boiling point of three isomeric pentanes follows the order

n-pentane > isopentane > neopentane

Statement II : When branching increases, the molecule attains a shape of sphere. This results in smaller surface area for contact, due to which the intermolecular forces between the spherical molecules are weak, thereby lowering the boiling point.

In the light of the above statements, choose the most appropriate answer from the options given below :

- (1) Both statement I and Statement II are correct
- (2) Both Statement I and Statement II are incorrect
- (3) Statement I is correct but Statement II is incorrect
- (4) Statement I is incorrect but Statement II is correct

Ans. (1)

76. Given below are two statements :

> **Statement I** : Both $[Co(NH_3)_6]^{+3}$ and $[CoF_6]^{3-}$ complexes are octahedral but differ in their magnetic behaviour.

> **Statement II** : $[Co(NH_3)_6]^{3+}$ is diamagnetic whereas $[CoF_6]^{3-}$ is paramagnetic.

> In the light of the above statements, choose the correct answer from the options given below :

- (1) Both statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is true but Statement II is false
- (4) Statement I is false but Statement II is true

Ans. (1)

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77. Match List I with List II.

	List-I		List-II
	(Molecule)	(Nı	umber and types of
		bo	ond/s between two
			carbon atoms)
Α.	ethane	I.	one σ -bond and
			two π-bonds
В.	ethene		two π-bonds
_	carbon molecule, C_2		one σ-bond
D.	ethyne	IV.	one σ -bond and
			one π -bond
C	Choose the correct an	nswer	from the options given
b	elow :		
(]	1) A-I, B-IV, C-II, D-III		
(2	2) A-IV, B-III, C-II, D-I		
(3	3) A-III, B-IV, C-II, D-I		
1			

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

78. The Henry's law constant (K_H) values of three gases (A, B, C) in water are 145, 2 × 10⁻⁵ and 35 kbar, respectively. The solubility of these gases in water follow the order :

(1) $B > A > C$	(2) $B > C > A$
(3) $A > C > B$	(4) $A > B > C$

Ans. (2)

79. The energy of an electron in the ground state (n = 1) for He⁺ ion is -xJ, then that for an electron in n = 2 state for Be³⁺ ion in J is :

(1) – x

(3) –4x

$$-\frac{4}{9}x$$

(2) -

(4)

Ans. (1)

- **80.** The E° value for the Mn^{3+}/Mn^{2+} couple is more positive than that of Cr^{3+}/Cr^{2+} or Fe^{3+}/Fe^{2+} due to change of
 - (1) d^5 to d^4 configuration
 - (2) d^5 to d^2 configuration
 - (3) d^4 to d^5 configuration
 - (4) d^3 to d^5 configuration

Ans. (3)

81.	The reagents with whi	ich glucose does not react to	
	give the corresponding	tests/products are	
	A. Tollen's reagent	B. Schiff's reagent	
	C. HCN	D. NH ₂ OH	
	E. NaHSO ₃		
	Choose the correct options from the given below :		
	(1) B and C	(2) A and D	
	(3) B and E	(4) E and D	

Ans. (3)

82. Match List I with List II.

List-I	List-II
(Complex)	(Type of
	isomerism)
A. $\left[C_0(NH_3)_5(NO_2) \right] Cl_2$	I. Solvate
	isomerism
B. $\left[C_0(NH_3)_5(SO_4) \right]$ Br	II. Linkage
	isomerism
C. $\left[C_0(NH_3)_6 \right] \left[Cr(CN)_6 \right]$	III. Ionization
	isomerism
D. $\left[C_0(H_2O)_6 \right] Cl_3$	IV. Coordination
	isomerism

Choose the correct answer from the options given below :

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

Ans. (1)

83. Arrange the following elements in increasing order of first ionization enthalpy :

Li, Be, B, C, N

Choose the correct answer from the options given below :

- (1) Li < Be < B < C < N(2) Li < B < Be < C < N
- (3) Li < Be < C < B < N
- (4) Li < Be < N < B < C

Ans. (2)



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84 .	1 gram of sodium	hydroxide was treated with
	25 mL of 0.75 M	HCL solution, the mass of
	sodium hydroxide left	unreacted is equal to
	(1) 750 mg	(2) 250 mg
	(3) Zero mg	(4) 200 mg

Ans. (2)

85. For the reaction 2A = B + C, $K_c = 4 \times 10^{-3}$. At a given time, the composition of reaction mixture is: $[A] = [B] = [C] = 2 \times 10^{-3} \text{ M}.$

Then, which of the following is correct ?

- (1) Reaction is at equilibrium.
- (2) Reaction has a tendency to go in forward direction.
- (3) Reaction has a tendency to go in backward direction
- (4) Reaction has gone to completion in forward direction.

Ans. (3)

Chemistry : Section-B (Q. No. 86 to 100)

- **86.** Given below are certain cations. Using inorganic qualitative analysis, arrange them in increasing group number from 0 to VI.
 - A. Al^{3+} B. Cu^{2+}
 - C. Ba²⁺ D. Co²⁺
 - $E. \ Mg^{2+}$

Choose the correct answer from the options given below:

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

Ans. (1)

87. The products A and B obtained in the following reactions, respectively, are
3ROH + PCl₃ → 3RCl + A
ROH + PCl₅ → RCl + HCl + B
(1) POCl₃ and H₃PO₃ (2) POCl₃ and H₃PO₄

- (3) H_3PO_4 and $POCl_3$ (4) H_3PO_3 and $POCl_3$
- Ans. (4)

88. Mass in grams of copper deposited by passing 9.6487 A current through a voltmeter containing copper sulphate solution for 100 seconds is:
(Given : Molar mass of Cu : 63 g mol⁻¹, 1F = 96487 C)
(1) 3.15 g
(2) 0.315 g
(3) 31.5 g
(4) 0.0315 g

Ans. (2)

89. The plot of osmotic pressure (Π) vs concentration (mol L⁻¹) for a solution gives a straight line with slope 25.73 L bar mol⁻¹. The temperature at which the osmotic pressure measurement is done is:

(Use R =
$$0.083 \text{ L}$$
 bar mol⁻¹ K⁻¹)

 (1) 37℃
 (2) 310℃

 (3) 25.73℃
 (4) 12.05℃

Ans. (1)

90. Identify the major product C formed in the following reaction sequence:

$$\begin{array}{c} CH_{3} \longrightarrow CH_{2} \longrightarrow CH_{2} \longrightarrow H^{-} \xrightarrow{NaCH} A \\ \xrightarrow{OH^{-} \\ Partial hydrolysis} \xrightarrow{B \longrightarrow B^{-} \\ B_{f_{2}} \longrightarrow C^{-} \\ (Major) \end{array}$$

- (1) propylamine
- (2) butylamine
- (3) butanamide
- (4) α bromobutanoic acid

Ans. (1)

91. Identify the **correct** answer.

(1) Three resonance structures can be drawn for ozone

- (2) BF_3 has non-zero dipole moment
- (3) Dipole moment of $NF_3 \, is$ greater than that of NH_3
- (4) Three canonical forms can be drawn for CO_3^{2-} ion.

Ans. (4)

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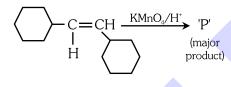
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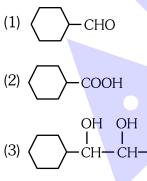


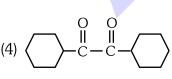
92. Given below are two statements :
Statement I : [Co(NH₃)₆]³⁺ is a homoleptic complex whereas [Co(NH₃)₄ Cl₂]⁺ is a heteroleptic complex.
Statement II : Complex [Co(NH₃)₆]³⁺ has only one kind of ligands but [Co(NH₃)₆]³⁺ has only one kind of ligands but [Co(NH₃)₄ Cl₂]⁺ has more than one kind of ligands. In the light of the above statements, choose the *correct* answer from the options given below.
(1) Both Statement I and Statement II are true.
(2) Both Statement I and Statement II are false.
(3) Statement I is true but Statement II is false.
(4) Statement I is false but Statement II is true.

93. For the given reaction



'P' is





Ans. (2)



94. The pair of lanthanoid ions which are diamagnetic is
(1) Ce⁴⁺ and Yb²⁺
(2) Ce³⁺ and Eu²⁺
(3) Gd³⁺ and Eu³⁺
(4) Pm³⁺ and Sm³⁺
Ans. (1)

95. Consider the following reaction in a sealed vessel at equilibrium with concentrations of $N_2 = 3.0 \times 10^{-3} \text{ M}, O_2 = 4.2 \times 10^{-3} \text{ M} \text{ and } NO = 2.8 \times 10^{-3} \text{ M}.$ $2NO_{(g)} \rightleftharpoons N_{2(g)} + O_{2(g)}$ If 0.1 mol L⁻¹ of NO_(g) is taken in a closed vessel, what will be degree of dissociation (α) of NO_(g) at equilibrium? (1) 0.00889 (2) 0.0889 (3) 0.8889 (4) 0.717

Ans. (4)

96. A compound X contains 32% of A, 20% of B and remaining percentage of C. Then, the empirical formula of X is :

(Given atomic masses of A = 64; B = 40; C = 32 u) (1) A_2BC_2 (2) ABC_3

(3)
$$AB_2C_2$$
 (4) ABC

Ans. (2)

97. The work done during reversible isothermal expansion of one mole of hydrogen gas at 25°C from pressure of 20 atmosphere to 10 atmosphere is :

(Given R = 2.0 cal K^{-1} mol⁻¹)

- (1) 0 calorie
- (2) –413.14 calories
- (3) 413.14 calories
- (4) 100 calories

Ans. (2)

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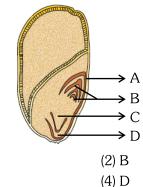
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FINAL NEET(UG)-2024 (EXAMINATION) (Held On Sunday 5th MAY, 2024) TEST PAPER WITH ANSWER BIOLOGY Botany : Section-A (Q. No. 101 to 135) **106.** What is the fate of a piece of DNA carrying only gene of interest which is transferred into an alien **101.** Lecithin, a small molecular weight organic organism? compound found in living tissues, is an example of : A. The piece of DNA would be able to multiply (1) Amino acids (2) Phospholipids itself independently in the progeny cells of the (3) Glycerides (4) Carbohydrates organism. Ans. (2) B. It may get integrated into the genome of the **102.** Which of the following are required for the dark recipient. reaction of photosynthesis? C. It may multiply and be inherited along with the A. Light B. Chlorophyll host DNA. C. CO₂ D. ATP D. The alien piece of DNA is not an integral part E. NADPH of chromosome. Choose the correct answers from the options given E. It shows ability to replicate. below: Choose the correct answer from the options given (2) B, C and D only (1) A, B and C only below: (3) C, D and E only (4) D and E only (1) A and B only Ans. (3) (2) D and E only **103.** Spindle fibers attach to kinetochores of chromosomes (3) B and C only during (4) A and E only (1) Prophase (2) Metaphase Ans. (3) (3) Anaphase (4) Telophase **107.** Given below are two statements: Ans. (2) **Statement I** : Bt toxins are insect group specific and **104.** Bulliform cells are responsible for coded by a gene cry IAc. (1) Inward curling of leaves in monocots. Statement II : Bt toxin exists as inactive protoxin (2) Protecting the plant from salt stress. in *B. thuringiensis*. However, after ingestion by the (3) Increased photosynthesis in monocots. insect the inactive protoxin gets converted into (4) Providing large spaces for storage of sugars. active form due to acidic pH of the insect gut. Ans. (1) In the light of the above statements, choose the **105.** In the given figure, which component has thin outer correct answer from the options given below: walls and highly thickened inner walls? (1) Both Statement I and Statement II are true (2) Both Statement I and Statement II are false Α (3) Statement I is true but Statement II is false В (4) Statement I is false but Statement II is true С Ans. (3) D **108.** List of endangered species was released by-(1) GEAC (2) WWF (2) D (1) C(3) FOAM (4) IUCN (4) B (3)AAns. (4) Ans. (1) with **ALLEN's** NEET-UG **CLICK HERE** 2024 **RANK** For more information Enter Your NEET-UG Marks & øvisit:allen.in Get the Expected Rank



109. Identify the part of the seed from the given figure which is destined to form root when the seed germinates.



Ans. (3)

(1)A

(3) C

110. Match List I with List II.

	List I		List II
А.	Clostridium	I.	Ethanol
	butylicum		
В.	Saccharomyces	II.	Streptokinase
	cerevisiae		
C	Trichodorma	Ш	Buturic acid

Trichoderma Butyric acid III. polysporum

D. Streptococcus sp. IV. Cyclosporin-A Choose the correct answer from the options given below:

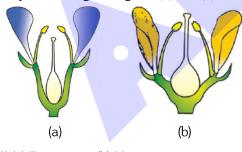
(1) A-III, B-I, C-II, D-IV

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

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

Ans. (3)

111. Identify the type of flowers based on the position of calyx, corolla and androecium with respect to the ovary from the given figures (a) and (b).



- (1) (a) Epigynous; (b) Hypogynous
- (2) (a) Hypogynous; (b) Epigynous
- (3) (a) Perigynous; (b) Epigynous
- (4) (a) Perigynous; (b) Perigynous

Ans. (4)



- **112.** Auxin is used by gardeners to prepare weed-free lawns. But no damage is caused to grass as auxin (1) promotes apical dominance. (2) promotes abscission of mature leaves only. (3) does not affect mature monocotyledonous plants. (4) can help in cell division in grasses, to produce growth. Ans. (3) **113.** A pink flowered Snapdragon plant was crossed with a red flowered Snapdragon plant. What type of phenotype/s is/are expected in the progeny? (1) Only red flowered plants (2) Red flowered as well as pink flowered plants (3) Only pink flowered plants (4) Red, Pink as well as white flowered plants Ans. (2) 114. Which one of the following is not a criterion for classification of fungi? (1) Morphology of mycelium (2) Mode of nutrition (3) Mode of spore formation (4) Fruiting body Ans. (2) **115.** The lactose present in the growth medium of
 - bacteria is transported to the cell by the action of:
 - (1) Beta-galactosidase
 - (2) Acetylase
 - (3) Permease
 - (4) Polymerase

Ans. (3)

- 116. In a plant, black seed color (BB/Bb) is dominant over white seed color (bb). In order to find out the genotype of the black seed plant, with which of the following genotype will you cross it?
 - (1) BB
 - (2) bb
 - (3) Bb
 - (4) BB/Bb
- Ans. (2)

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117. Given below are two statements:

Statement I : Parenchyma is living but collenchyma is dead tissue.

Statement II : Gymnosperms lack xylem vessels but presence of xylem vessels is the characteristic of angiosperms.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is true but Statement II is false
- (4) Statement I is false but Statement II is true

Ans. (4)

- **118.** How many molecules of ATP and NADPH are required for every molecule of CO_2 fixed in the Calvin cycle?
 - (1) 2 molecules of ATP and 3 molecules of NADPH.
 - (2) 2 molecules of ATP and 2 molecules of NADPH.
 - (3) 3 molecules of ATP and 3 molecules of NADPH.
 - (4) 3 molecules of ATP and 2 molecules of NADPH.

Ans. (4)

- **119.** A transcription unit in DNA is defined primarily by the three regions in DNA and these are with respect to upstream and down stream end;
 - (1) Repressor, Operator gene, Structural gene
 - (2) Structural gene, Transposons, Operator gene
 - (3) Inducer, Repressor, Structural gene
 - (4) Promotor, Structural gene, Terminator

Ans. (4)

- **120.** Tropical regions show greatest level of species richness because
 - A. Tropical latitudes have remained relatively undisturbed for millions of years, hence more time was available for species diversification.
 - B. Tropical environments are more seasonal.
 - C. More solar energy is available in tropics.
 - D. Constant environments promote niche specialization.
 - E. Tropical environments are constant and predictable.

Choose the correct answer from the options given below:

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

Ans. (1)



121. The equation of Verhulst-Pearl logistic growth is

$$\frac{dN}{dt} = rN\left[\frac{K-N}{K}\right]$$

From this equation, K indicates :

- (1) Intrinsic rate of natural increase
- (2) Biotic potential
- (3) Carrying capacity
- (4) Population density

Ans. (3)

- **122.** Inhibition of Succinic dehydrogenase enzyme by malonate is a classical example of :
 - (1) Cofactor inhibition (2) Feedback inhibition
 - (3) Competitive inhibition (4) Enzyme activation

Ans. (3)

- **123.** Which one of the following can be explained on the basis of Mendel's Law of Dominance?
 - A. Out of one pair of factors one is dominant and the other is recessive.
 - B. Alleles do not show any expression and both the characters appear as such in F_2 generation.
 - C. Factors occur in pairs in normal diploid plants.
 - D. The discrete unit controlling a particular character is called factor.
 - E. The expression of only one of the parental characters is found in a monohybrid cross.

Choose the correct answer from the options given below :

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

Ans. (2)

124. Match List I with List II

	List I		List II
А.	Nucleolus	I.	Site of formation of
B.	Centriole	II.	glycolipid Organization like the cartwheel
C.	Leucoplasts	III.	Site for active
			ribosomal RNA synthesis
D.	Golgi	IV.	For storing nutrients
	apparatus		
Cho	pose the corre	ct ans	wer from the options given
belo	ow:		

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

Ans. (1)

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Final NEE1(UG)-2024 EXAM/05-05-2024	
125. Identify the set of correct statements :	130. Given below are two statements :
A. The flowers of Vallisneria are colourful and	Statement-I : Chromosomes
produce nectar.	visible under light microscope
B. The flowers of waterlily are not pollinated by	stage.
water.	Statement-II : The begining of
C. In most of water-pollinated species, the pollen	recognized by dissolution of synap
grains are protected from wetting.	In the light of the above staten
 D. Pollen grains of some hydrophytes are long and ribbon like. 	correct answer from the options g
E. In some hydrophytes, the pollen grains are	(1) Both Statement-I and Statemer
carried passively inside water.	(2) Both Statement-I and Statemer
Choose the correct answer from the options given	(3) Statement-I is true but Stateme
below :	(4) Statement-I is false but Stateme
(1) C, D and E only (2) A, B, C and D only	Ans. (1)
(3) A, C, D and E only (4) B, C, D and E only	131. Formation of interfascicular car
Ans. (4)	developed parenchyma cells is an
126. Match List-I with List-II	(1) Differentiation (2) Redi
List-I List-II	(3) Dedifferentiation (4) Matu
A. <i>Rhizopus</i> I. Mushroom	Ans. (3)
B. Ustilago II. Smut fungus	132. The capacity to generate a who
C. Puccinia III. Bread mould	cell of the plant is called :
D. Agaricus IV. Rust fungus	(1) Totipotency (2) Micro
Choose the correct answer from the options given below :	(3) Differentiation (4) Som
(1) A-III, B-II, C-IV, D-I (2) A-I, B-III, C-II, D-IV	Ans. (1)
(3) A-III, B-II, C-I, D-IV (4) A-IV, B-III, C-II, D-I	133. Match List I with List II
Ans. (1)	List I
127. Hind II always cuts DNA molecules at a particular	A. Two or more alternative I.
point called recognition sequence and it consists of :	forms of a gene
(1) 8 bp (2) 6 bp	B. Cross of F_1 progeny with II.
(3) 4 bp (4) 10 bp	homozygous recessive
Ans. (2)	parent
128. Which of the following is an example of	C. Cross of F ₁ progeny with III any of the parents
actinomorphic flower ?	D. Number of chromosome IV
(1) Datura (2) Cassia	sets in plant
(3) Pisum (4) Sesbania	Choose the correct answer from
Ans. (1)	below:
129. The type of conservation in which the threatened	(1) A–I, B–II, C–III, D–IV
species are taken out from their natural habitat and	(2) A-II, B-I, C-III, D-IV
placed in special setting where they can be protected and given special care is called ;	(3) A-III, B-IV, C-I, D-II
(1) <i>in-situ</i> conservation	(4) A–IV, B–III, C–II, D–I Ans. (3)
(2) Biodiversity conservation	134. The cofactor of the enzyme carbox
-	· · · · · · · · · · · · · · · · · · ·

(3) Statement-I is true but Statement-II is false (4) Statement-I is false but Statement-II is true ns. (1) **31.** Formation of interfascicular cambium from fully developed parenchyma cells is an example for (1) Differentiation (2) Redifferentiation (3) Dedifferentiation (4) Maturation

Statement-I : Chromosomes become gradually visible under light microscope during leptotene

Statement-II : The beginning of diplotene stage is recognized by dissolution of synaptonemal complex. In the light of the above statements, choose the

correct answer from the options given below : (1) Both Statement-I and Statement-II are true (2) Both Statement-I and Statement-II are false

ns. (3)

- **32.** The capacity to generate a whole plant from any cell of the plant is called :
 - (1) Totipotency (2) Micropropagation
 - (4) Somatic hybridization

List II

ns. (1)

	LIJU		
А.	Two or more alternative	I.	Back cross
	forms of a gene		
В.	Cross of F_1 progeny with	II.	Ploidy
	homozygous recessive		

- parent C. Cross of F_1 progeny with III. Allele
- any of the parents
- D. Number of chromosome IV. Test cross sets in plant

Choose the correct answer from the options given below:

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

ns. (3)

- **34.** The cofactor of the enzyme carboxypeptidase is :
 - (1) Zinc (2) Niacin
 - (4) Haem
- Ans. (1)

(3) Flavin

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(3) Semi-conservative method

(4) Sustainable development

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Ans. (2)



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135.	These are regarded as 1	major causes of biodiversity	138.	Iden	tify the step in tric	arbox	ylic acid cycle, which
	loss :			does	not involve oxidatio	on of s	substrate.
	A. Over exploitation			(1) M	falic acid \rightarrow Oxaloa	cetic a	acid
	B. Co-extinction				uccinic acid \rightarrow Mali		
	C. Mutation				uccinyl-CoA \rightarrow Succ		
	D. Habitat loss and fragr	nentation					
	E. Migration				socitrate $\rightarrow \alpha$ -ketog	iulario	
	Choose the correct optic	on :	Ans.				
	(1) A, C and D only	(2) A, B, C and D only	139.	Mato	ch List I with List II		
	(3) A, B and E only	(4) A, B and D only			List I		List II
Ans.	(4)			Α.	Citric acid cycle	I.	Cytoplasm
	Botany : Section-B (C). No. 136 to 150)		В.	Glycolysis	II.	Mitochondrial matrix
				C.	Electron transport	III.	Intermembrane
136.	Match List I with List II				system		space of
	List I	List II					mitochondria
	(Types of Stam			D.	Proton gradient	IV.	Inner mitochondrial
	A. Monoadelphous	I. Citrus					membrane
	B. Diadelphous	II. Pea		Cho	ose the correct ans	wer f	rom the options given
	C. Polyadelphous	III. Lily		belo	W:		
	D. Epiphyllous	IV. China-rose		(1)	A–I, B–II, C–III, D–IV	J	
		wer from the options given		(2)	4 II , BI, CIV, DII	II	
	below:	т			Α−ΙΙΙ, Β−Ι ν, C−Ι, D−∃		
	 (1) A–IV, B–II, C–I, D–II (2) A–IV, B–I, C–II, D–II 				A-IV, B-III, C-II, D-		
	(2) A–IV, D–I, C–IV, D–II (3) A–I, B–II, C–IV, D–II		Ans.				
	(4) A–III, B–I, C–IV, D–I				ch List I with List II		
Ans.				mate	List I		List II
	Match List I with List I			A.	Frederick	I.	Genetic code
107.	List I	List II			Griffith		
	A. GLUT-4 I.	Hormone		В.	Francois Jacob	II.	Semi-conservative
	B. Insulin II.	Enzyme			& Jacque		mode of DNA
	C. Trypsin III.	Intercellular ground		С	Monod Har Gobind	III.	replication Transformation
		substance		0.	Khorana		
	D. Collagen IV.	Enables glucose transport		D.	Meselson &	IV.	Lac operon
	-	into cells		Cha	Stahl		
	Choose the correct answ	wer from the options given				wer I	rom the options given
	below:			belov		1	
	(1) A–IV, B–I, C–II, D–II	Ι			A–III, B–II, C–I, D–I∖		
	(2) A-I, B-II, C-III, D-IV	/			A–III, B–IV, C–I, D–∃		
	(3) A-II, B-III, C-IV, D-	ł			A-II, B-III, C-IV, D-		
	(4) A-III, B-IV, C-I, D-I	Ι			A−IV, B−I, C−II, D−I	11	
Ans.	(1)		Ans.	(2)			

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141. Given below are two statements :

Statement I : In C_3 plants, some O_2 binds to RuBisCO, hence CO₂ fixation is decreased.

Statement II: In C₄ plants, mesophyll cells show very little photorespiration while bundle sheath cells do not show photorespiration.

In the light of the above statements, choose the **correct** answer from the options given below :

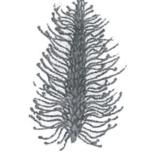
(1) Both Statement I and Statement II are true

(2) Both Statement I and Statement II are false

- (3) Statement I is true but Statement II is false
- (4) Statement I is false but Statement II is true

Ans. (3)

142. Identify the correct description about the given figure :



- (1) Wind pollinated plant inflorescence showing flowers with well exposed stamens.
- (2) Water pollinated flowers showing stamens with mucilaginous covering.
- (3) Cleistogamous flowers showing autogamy
- (4) Compact inflorescence showing complete autogamy.

List II

Ans. (1)

143. Match List I with List II

List I

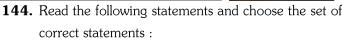
Α. Rose Twisted aestivation I.

- B. Pea II. Perigynous flower
- C. Cotton III. Drupe
- D. Mango IV. Marginal placentation

Choose the correct answer from the options given below :

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

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



In the members of Phaeophyceae,

- A. Asexual reproduction usually occurs bv biflagellate zoospores.
- B. Sexual reproduction is by oogamous method only.
- C. Stored food is in the form of carbohydrates which is either mannitol or laminarin.
- D. The major pigments found are chlorophyll a, c and carotenoids and xanthophyll.
- E. Vegetative cells have a cellulosic wall, usually covered on the outside by gelatinous coating of algin.

Choose the correct answer from the options given below :

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

Ans. (3)

145. In an ecosystem if the Net Primary Productivity (NPP) of first trophic level is

> 100 x (kcal m^{-2}) yr^{-1} , what would be the GPP (Gross Primary Productivity) of the third trophic level of the same ecosystem ?

1)
$$\frac{x}{10}$$
 (kcal m⁻²)yr⁻¹ (2) x(kcal m⁻²)yr⁻¹

(3)
$$10x(kcal m^{-2})yr^{-1}$$
 (4) $\frac{100x}{3x}(kcal m^{-2})yr^{-1}$

Ans. (3)

- **146.** Which of the following statement is **correct** regarding the process of replication in E.coli?
 - (1) The DNA dependent DNA polymerase catalyses polymerization in one direction that is $3' \rightarrow 5'$
 - (2) The DNA dependent RNA polymerase catalyses polymerization in one direction, that is $5' \rightarrow 3'$
 - (3) The DNA dependent DNA polymerase catalyses polymerization in 5' \rightarrow 3' as well as 3' \rightarrow 5' direction
 - (4) The DNA dependent DNA polymerase catalyses polymerization in $5' \rightarrow 3'$ direction.

Ans. (4)

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Ans. (1)



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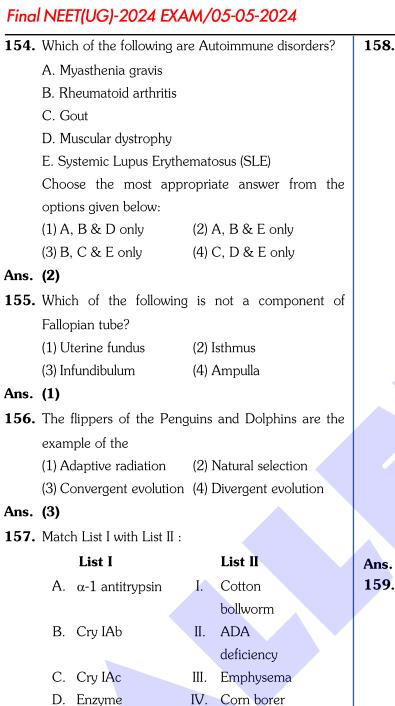
147. Which of the following are fused in somatic	Zoology : Section-A (Q. No. 151 to 185)
hybridization involving two varieties of plants ?	
(1) Callus	151. Match List I with List II : List I List II
(2) Somatic embryos	A. Common cold I. Plasmodium
(3) Protoplasts	B. Haemozoin II. Typhoid
(4) Pollens	C. Widal test III. Rhinoviruses
Ans. (3)	D. Allergy IV. Dust mites Choose the correct answer from the options given
148. Spraying sugarcane crop with which of the	below:
following plant growth regulators, increases the	(1) A-II, B-IV, C-III, D-I (2) A-I, B-III, C-II, D-IV
length of stem, thus, increasing the yield?	(3) A-III, B-I, C-II, D-IV (4) A-IV, B-II, C-III, D-I
	Ans. (3) 152. Match List I with List II :
(1) Auxin	
(2) Gibberellin	Effective
(3) Cytokinin	A. Cocaine I. sedative in
(4) Abscisic acid	surgery Cannabis
Ans. (2)	B. Heroin II. sativa
149. Match List I with List II	C. Morphine III. Erythroxylum
List I List II	D. Marijuana IV. Papaver somniferum
A. Robert I. Species-Area	Choose the correct answer from the options given
May relationship	below:
B. Alexander II. Long term ecosystem	(1) A-IV, B-III, C-I, D-II (2) A-I, B-III, C-II, D-IV
von experiment using out	(3) A-II, B-I, C-III, D-IV
Humboldt door plots	(4) A-III, B-IV, C-I, D-II
C. Paul III. Global species diversity	Ans. (4)
Ehrlich at about 7 million	153. Match List I with List II : List I List II
D. David IV. Rivet popper hypothesis	A. Fibrous joints I. Adjacent
Tilman	vertebrae,
Choose the correct answer from the options given	limited
below :	movement B. Cartilaginous II. Humerus and
(1) A-II, B-III, C-I, D-IV	joints Pectoral
(2) A-III, B-I, C-IV, D-II	girdle, rotational
(3) A-I, B-III, C-II, D-IV	C. Hinge joints III. Skull, don't
(4) A-III, B-IV, C-II, D-I	allow any
Ans. (2)	movement D. Ball and socket IV. Knee, help in
	joints locomotion
150. The DNA present in chloroplast is :	Choose the correct answer from the options given
(1) Linear, double stranded	below: (1) A-IV, B-II, C-III, D-I
(2) Circular, double stranded	(2) A-I, B-III, C-II, D-IV
(3) Linear, single stranded	(3) A-II, B-III, C-I, D-IV
(4) Circular, single stranded	(4) A-III, B-I, C-IV, D-II Ans. (4)
Ans. (2)	



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D. Enzyme replacement

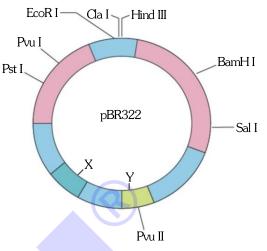
therapy

Choose the correct answer from the options given below:

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



158. The following diagram showing restriction sites in E.coli cloning vector pBR322. Find the role of 'X' and 'Y genes.



- (1) The gene X' is responsible for resistance to antibiotics and 'Y' for protein involved in the replication of Plasmid.
- (2) The gene 'X' is responsible for controlling the copy number of the linked DNA and 'Y' for protein involved in the replication of Plasmid.
- (3) The gene X' is for protein involved in replication of Plasmid and 'Y ' for resistance to antibiotics.
- (4) Gene 'X' is responsible for recognition sites and Y' is responsible for antibiotic resistance.

Ans. (2)

159. Given below are two statements : one is labelled as Assertion A and the other is labelled as Reason R:

> Assertion A : Breast-feeding during initial period of infant growth is recommended by doctors for bringing a healthy baby.

> **Reason R** : Colostrum contains several antibodies absolutely essential to develop resistance for the new born baby.

> In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Both A and R are correct and R is the correct explanation of A.
- (2) Both A and R are correct but R is NOT the correct explanation of A.
- (3) A is correct but R is not correct.
- (4) A is not correct but R is correct.

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160. The "Ti plasmid" of Agrobacterium tumefaciens	165. Which one of the following factors will not affect the
stands for	Hardy-Weinberg equilibrium ?
(1) Tumour inhibiting plasmid	(1) Genetic recombination
(2) Tumor independent plasmid	(2) Genetic drift
(3) Tumor inducing plasmid	(3) Gene migration
(4) Temperature independent plasmid	(4) Constant gene pool
Ans. (3)	Ans. (4)
161. Match List I with List II :	166. Match List I with List II :
	List I List II A. Pons I. Provides additional
List I List II A. Pleurobrachia I. Mollusca	A. Pons I. Provides additional space for Neurons,
A. Pleurobrachia I. Mollusca B. Radula II. Ctenophora	regulates posture
C. Stomochord III. Osteichthyes	and balance.
D. Air bladder IV. Hemichordata	B. Hypothalamus II. Controls respiration
Choose the correct answer from the options given	and gastric
below :	secretions
(1) A-IV, B-II, C-III, D-I	C. Medulla III. Connects different regions of the brain
(2) A-II, B-I, C-IV, D-III	D. Cerebellum IV. Neuro secretory
(3) A-II, B-IV, C-I, D-III	cells
(4) A-IV, B-III, C-II, D-I	Choose the correct answer from the options given
Ans. (2)	below :
162. Given below are some stages of human evolution.	(1) A-II, B-III, C-I, D-IV
Arrange them in correct sequence (Past to Recent)	(2) A-III, B-IV, C-II, D-I (3) A-I, B-III, C-II, D-IV
A. Homo habilis	(4) A-II, B-I, C-III, D-IV
B. Homo sapiens	Ans. (2)
C. Homo neanderthalensis	167. Match List I with List II :
D. Homo erectus	
Choose the correct sequence of human evolution	A. Down's syndrome I. 11 th chromosome B. α-Thalassemia II. 'X' chromosome
from the options given below :	C. β -Thalassemia III. 21 st chromosome
(1) D-A-C-B (2) B-A-D-C	D. Klinefelter's IV. 16 th chromosome
(1) D-A-C-B (2) D-A-D-C-B (3) C-B-D-A (4) A-D-C-B	syndrome
	Choose the correct answer from the options given below :
Ans. (4)	(1) A-I, B-II, C-III, D-IV
163. Which of the following is not a steroid hormone ?	(2) A-II, B-III, C-IV, D-I
(1) Cortisol (2) Testosterone	(3) A-III, B-IV, C-I, D-II (4) A-IV, B-I, C-II, D-III
(3) Progesterone (4) Glucagon	Ans. (3)
Ans. (4)	168. Which one is the correct product of DNA
164. In both sexes of cockroach, a pair of jointed	dependent RNA polymerase to the given template ?
filamentous structures called anal cerci are present	3'TACATGGCAAATATCCATTCA5'
on :	(1) 5'AUGUACCGUUUAUAGGUAAGU3'
(1) 5^{th} segment (2) 10^{th} segment	(2) 5'AUGUAAAGUUUAUAGGUAAGU3'
(3) 8^{th} and 9^{th} segment (4) 11^{th} segment	(3) 5'AUGUACCGUUUAUAGGGAAGU3'
Ans. (2)	(4) 5'ATGTACCGTTTATAGGTAAGT3'
	Ans. (1)
	(-)



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169. Given below are two statements : one is labelled as **172.** Consider the following statements : Assertion A and the other is labelled as Reason R. A. Annelids are true coelomates B. Poriferans are pseudocoelomates Assertion A: FSH acts upon ovarian follicles in C. Aschelminthes are acoelomates female and Leydig cells in male. D. Platyhelminthes are pseudocoelomates **Reason R:** Growing ovarian follicles secrete estrogen in female while interstitial cells secrete below : androgen in male human being. (1) B only (2) A only In the light of the above statements, choose the (3) C only correct answer from the options given below : Ans. (2) (1) Both A and R are true and R is the correct explanation of A. (2) Both A and R are true but R is NOT the correct location in human body : explanation of A. (3) A is true but R is false. (4) A is false but R is true. Ans. (4) 170. Which of the following is not a natural/traditional (a) (b) (c) contraceptive method ? Name of muscle/location (1) Coitus interruptus (1) (a) Smooth-Toes (2) Periodic abstinence (b) Skeletal - Legs (3) Lactational amenorrhea (c) Cardiac - Heart (4) Vaults (2) (a) Skeletal - Triceps Ans. (4) (b) Smooth - Stomach **171.** Match List-I with List-II : (c) Cardiac - Heart List-I List-II (3) (a) Skeletal - Biceps (b) Involuntary - Intestine A. Non-medicated Multiload 375 I. (c) Smooth - Heart IUD (4) (a) Involuntary - Nose tip Progestogens B. Copper releasing II. (b) Skeletal - Bone IUD (c) Cardiac - Heart C. Hormone III. Lippes loop Ans. (2) releasing IUD D. Implants IV. LNG-20 Choose the correct answer from the options given A. AV bundle below : C. AV node (1) A-III, B-I, C-II, D-IV E. SA node (2) A-I, B-III, C-IV, D-II (3) A-IV, B-I, C-II, D-III options given below : (4) A-III, B-I, C-IV, D-II (1) E-C-A-D-B (2) A-E-C-B-D (4) E-A-D-B-C (3) B-D-E-C-A Ans. (4) Ans. (1)



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Choose the correct answer from the options given

- (4) D only
- **173.** Three types of muscles are given as a, b and c. Identify the correct matching pair along with their

174. Following are the stages of pathway for conduction of an action potential through the heart :

- B. Purkinje fibres
 - D. Bundle branches

Choose the correct sequence of pathway from the



path to success KOTA (RAJASTHAN)		
175. Match List I with List-II	:	178. Which of the following factors are favourable for the
List-I	List-II	formation of oxyhaemoglobin in alveoli?
A. Lipase	I. Peptide bond	(1) High pO_2 and High pCO_2
B. Nuclease	II. Ester bond	(2) High pO_2 and Lesser H ⁺ concentration
C. Protease	III. Glycosidic bond	(3) Low pCO_2 and High H ⁺ concentration
D. Amylase	IV. Phosphodiester	(4) Low pCO_2 and High temperature
	bond	Ans. (2)
	swer from the options given	
below :		179. Match List I with List-II :
(1) A-IV, B-II, C-III, D-I	(2) A-III, B-II, C-I, D-IV	List-I List-II
(3) A-II, B-IV, C-I, D-III	(4) A-IV, B-I, C-III, D-II	A. Pterophyllum I. Hag fish
Ans. (3)		B. Myxine 🛛 II. Saw fish
176. Match List I with List-II		C. Pristis III. Angel fish
List-I	List-II	D. Exocoetus IV. Flying fish
A. Axoneme	I. Centriole	Choose the correct answer from the options given
B. Cartwheel pattern	-	below :
C. Crista	III. Chromosome	(1) A-II, B-I, C-III, D-IV (2) A-III, B-I, C-II, D-IV
D. Statellite	IV. Mitochondria	(1) A II, B I, C II, D IV (2) A III, B I, C I, D IV (3) A-IV, B-I, C-II, D-III (4) A-III, B-II, C-I, D-IV
below :	swer from the options given	
(1) A-IV, B-III, C-II, D-I	(2) A-IV, B-II, C-III, D-I	Ans. (2)
(1) A-IV, D-III, C-II, D-III (3) A-II, B-IV, C-I, D-III	(4) A-II, B-I, C-IV, D-III	180. Match List I with List II :
Ans. (4)	(4) / / II, DI, CIV, DIII	List-I List-II
177. Match List I with List-II		A. Typhoid I. Fungus
List-I	List-II	B. Leishmaniasis II. Nematode
(Sub Phases of	(Specific characters)	C. Ringworm III. Protozoa
Prophase I)	(opecific characters)	D. Filariasis IV. Bacteria
A. Diakinesis	I. Synaptonemal	Choose the correct answer from the options given
A. Diakinesis	complex formation	below :
B. Pachytene	II. Completion of	(1) A-I, B-III, C-II, D-IV (2) A-IV, B-III, C-I, D-II
D. Fuolytone	terminalisation of	(3) A-III, B-I, C-IV, D-II (4) A-II, B-IV, C-III, D-I
	chiasmata	Ans. (2)
C. Zygotene	III. Chromosomes	
	look like thin	181. Which of the following statements is incorrect?
	threads	(1) A bio-reactor provides optimal growth conditions
D. Leptotene	IV. Appearance of	for achieving the desired product.
	recombination	(2) Most commonly used bio-reactors are of stirring
	nodules	type.
	swer from the options given	(3) Bio-reactors are used to produce small scale
below :		bacterial cultures.
(1) A-IV, B-II, C-III, D-I	(2) A-I, B-II, C-IV, D-III	(4) Bio- reactors have an agitator system, an oxygen
(3) A-II, B-IV, C-I, D-III	(4) A-IV, B-III, C-II, D-I	delivery system and foam control system.
Ans. (3)		Ans. (3)
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182. Given below are two statements:

Statement I : In the nephron, the descending limb of loop of Henle is impermeable to water and permeable to electrolytes.

Statement II : The proximal convoluted tubule is lined by simple columnar brush border epithelium and increases the surface area for reabsorption.

In the light of the above statements, choose the correct answer from the options given below :

- (1) Both Statement I and Statement II are true.
- (2) Both Statement I and Statement II are false.
- (3) Statement I is true but Statement II is false.
- (4) Statement I is false but Statement II is true.

Ans. (2)

183. Given below are two statement :

Statement I : The presence or absence of hymen is not a reliable indicator of virginity.

Statement II: The hymen is torn during the first coitus only.

In the light of the above statements, choose the correct answer from the options given below :

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false.
- (3) Statement I is true but Statement II is false.
- (4) Statement I is false but Statement II is true.

Ans. (3)

184. Match List I with List II :

			1
List I		List II	
A. Expiratory capacity	I.	Expiratory reserve volume + Tidal Volume +	
B. Functional residual	II.	Inspiratory reserve volume Tidal volume + Expiratory reserve volume	
capacity C. Vital capacity	III.	Tidal volume + Inspiratory reserve volume	
D. Inspiratory	IV	Expiratory reserve volume +	
	rrect ar	Residual volume nswer from the options given	
below			
(1) A-II, B-IV,C-	,	(2) A-III, B-II,C-IV,D-I	A
(3) A-II, B-I,C-IV	/,D-III	(4) A-I, B-III,C-II,D-IV	

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

Ans. (1)



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185. Following are the stages of cell division :
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A. Gap 2 phase	B. Cytokinesis
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Karyokinesis

E. Gap 1 phase

Choose the correct sequence of stages from the options given below :

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

Ans. (4)

Zoology : Section-B (Q. No. 186 to 200)

186. Given below are two statements:

Statement I : Mitochondria and chloroplasts are both double membrane bound organelles.

Statement II: Inner membrane of mitochondria is relatively less permeable, as compared to chloroplast.

In the light of the above statement, choose the most appropriate answer from the options given below :

- (1) Both Statement I and Statement II are correct
- (2) Both Statement I and Statement II are incorrect.
- (3) Statement I is correct but Statement II is incorrect.
- (4) Statement I is incorrect but Statement II is correct

Ans. (3)

187. Match List I with List II

List I		List II		
	Α.	Mesozoic Era	I.	Lower invertebrates
	В.	Proterozoic Era	II.	Fish & Amphibia
	C.	Cenozoic Era	III.	Birds & Reptiles
	D.	Paleozoic Era	IV	Mammals
Choose the correct answer from the options given				
	belc	ow :		

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

Ans. (4)

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188.	Given below are two statements :	191		
	Statement I : Gause's competitive exclusion principle states that two closely related species competing for different resources cannot exist indefinitely.			
	Statement II : According to Gause's principle,			
	during competition, the inferior will be eliminated. This may be true if resources are limiting. In the light of the above statements, choose the correct answer from the options given below. (1) Both Statement I and Statement II are true			
	(2) Both Statement I and Statement II are false.			
	(3) Statement I is true but Statement II is false.			
	(4) Statement I is false but Statement II is true.	Ans		
Ans.		192		
189.	Match List I with List II			
	List I List II			
	A. Unicellular glandular I. Salivary glands epithelium			
	B. Compound epithelium II. Pancreas			
	C. Multicellular glandular III. Goblet cells of			
	epithelium alimentary canal			
	D. Endocrine glandular IV Moist surface of epithelium buccal cavity			
	Choose the correct answer from the options given			
	below :			
	(1) A-II, B-I,C-III,D-IV (2) A-IV, B-III,C-I,D-II			
	(3) A-III, B-IV,C-I,D-II (4) A-II, B-I,C-IV,D-III			
Ans.	(3)			
190.	Match List I with List II related to digestive system of	Ans		
	cockroach.	193		
	List I List II			
	A. The structures used for I. Gizzard			
	storing of food.			
	B. Ring of 6-8 blind tubules II. Gastric			
	at junction of foregut and Caeca			
	midgut.			
	C. Ring of 100-150 yellow III. Malpighian			
	coloured thin filaments at tubules			
	junction of midgut and			
	hindgut.			
	D. The structures used for IV Crop			
	grinding the food.			
	Choose the correct answer from the options given			
	(1) A-IV, B-II,C-III,D-I (2) A-I, B-II,C-III,D-IV (3) A-IV, B-III,C-II,D-I (4) A-III, B-II,C-IV,D-I			
A				
Ans.	(1)	Ans		

- **191.** Choose the correct statement given below regarding juxta medullary nephron.
 - (1) Juxta medullary nephrons are located in the coloumns of Bertini.
 - (2) Renal corpuscle of juxta medullary nephron lies in the outer portion of the renal medulla.
 - (3) Loop of Henle of juxta medullary nephron runs deep into medulla.
 - (4) Juxta medullary nephrons outnumber the cortical nephrons.

Ans. (3)

192. Match List I with List II :

	List I		List II	
(A)	RNA polymerase III	(I) I	snRNPs	
(B)	Termination of	(II)	Promotor	
	transcription			
(C)	Splicing of Exons	(III)	Rho factor	
(D)	TATA box	(IV)	SnRNAs, tRNA	
Choose the correct answer from the options given				
oelov	<i>w</i> :			
1) A	-II, B-IV, C-I, D-III	(2) A-I	II, B-II, C-IV, D-I	
(3) A	-III, B-IV, C-I, D-II	(4) A-ľ	V, B-III, C-I, D-II	

Ans. (4)

193. Given below are two statements :

Statement I: The cerebral hemispheres are connected by nerve tract known as corpus callosum.

Statement II: The brain stem consists of the medulla oblongata, pons and cerebrum.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Both Statement I and Statement II are correct.
- (2) Both Statement I and Statement II are incorrect.
- (3) Statement I is correct but Statement II is incorrect.
- (4) Statement I is incorrect but Statement II is correct.

Ans. (3)



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- 194. Identify the correct option (A), (B), (C), (D) with **197.** Regarding catalytic cycle of an enzyme action, select the correct sequential steps : respect to spermatogenesis. A. Substrate enzyme complex formation. GnRH B. Free enzyme ready to bind with another substrate. C. Release of products. D. Chemical bonds of the substrate broken E. Substrate binding to active site. LH (A) Choose the correct answer from the options given ↓ below: (B) (C)(1) E, A, D, C, B (2) A, E, B, D, C ↓ (3) B, A, C, D, E (4) E, D, C, B, A Androgens Factors Ans. (1) ↓ 198. Match List I with List II : Formation of spermatids (D) List I List II A P wave (1) FSH, Leydig cells, Sertoli cells, spermiogenesis I Heart muscles are electrically (2) ICSH, Interstitial cells, Leydig cells, spermiogensis. silent. (3) FSH, Sertoli cells, Leydig cells, spermatogenesis. В QRS complex II Depolarisation (4) ICSH, Leydig cells, Sertoli cells, spermatogenesis. of ventricles. Ans. (1) T wave **III** Depolarisation С 195. As per ABO blood grouping system, the blood of atria. D T-P gap IV Repolarisation group of father is B^+ , mother is A^+ and child is O^+ . of ventricles. Their respective genotype can be Choose the correct answer from the options given A. $I^{B}i / I^{A}i / ii$ below: B. $I^{B}I^{B} / I^{A}I^{A} / ii$ (1) A-I, B-III, C-IV, D-II (2) A-III, B-II, C-IV, D-I C. $I^{A} I^{B} / iI^{A} / I^{B} i$ (3) A-II, B-III, C-I, D-IV (4) A-IV, B-II, C-I, D-III D. $I^{A}i / I^{B}i / I^{A}i$ Ans. (2) **199.** Match List I with List II. E. $iI^{B} / iI^{A} / I^{A}I^{B}$ List I List II Choose the most appropriate answer from the A Exophthalmic Excess secretion of I options given below : cortisol, moon face goiter (1) A only (2) B only & hyperglycemia. (3) C & B only (4) D & E only Π Hypo-secretion of В Acromegaly thyroid hormone Ans. (1) and stunted growth. **196.** Given below are two statements : III Hyper secretion of С Cushing's Statement I: Bone marrow is the main lymphoid syndrome thyroid hormone & protruding eye balls. organ where all blood cells including lymphocytes Cretinism IV Excessive secretion D are produced. of growth hormone. Statement II: Both bone marrow and thymus Choose the correct answer from the options given provide micro environments for the development below: (2) A-IV, B-II, C-I, D-III and maturation of T-Lymphocytes. (1) A-I, B-III, C-II, D-IV (3) A-III, B-IV, C-II, D-I (4) A-III, B-IV, C-I, D-II In the light of the above statements, choose the Ans. (4) most appropriate answer from the options given 200. The following are the statements about nonbelow : chordates : (1) Both Statement I and Statement II are correct. A. Pharynx is perforated by gill slits. (2) Both Statement I and Statement II are incorrect. B. Notochord is absent. (3) Statement I is correct but Statement II is C. Central nervous system is dorsal. incorrect. D. Heart is dorsal if present. (4) Statement I is incorrect but Statement II is E. Post anal tail is absent. (1) A & C only (2) A, B & D only correct. (3) B, D & E only (4) B, C & D only Ans. (1)
 - Ans. (3)

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