

PYQSide

RE-NEET (UG) 2024 — QUESTION PAPER

Max. Marks: 800

Questions: 200

Section A (MCQ)

Q.1 The magnetic potential energy, when a magnetic bar of magnetic moment $\vec{m}$ is placed perpendicular to the magnetic field $\vec{B}$ is [RE-NEET (UG) 2024]

- (1) $-\frac{mB}{2}$ (2) Zero (3) $-mB$ (4) mB

Scan or tap for the full solution



Q.2 A bob is whirled in a horizontal circle by means of a string at an initial speed of 10 rpm. If the tension in the string is quadrupled while keeping the radius constant, the new speed is: [RE-NEET (UG) 2024]

- (1) 20 rpm (2) 40 rpm (3) 5 rpm (4) 10 rpm

Scan or tap for the full solution



Q.3 A metal cube of side 5 cm is charged with 6 μC . The surface charge density on the cube is [RE-NEET (UG) 2024]

- (1) $0.125 \times 10^{-3} \text{ C m}^{-2}$ (2) $0.25 \times 10^{-3} \text{ C m}^{-2}$
(3) $4 \times 10^{-3} \text{ C m}^{-2}$ (4) $0.4 \times 10^{-3} \text{ C m}^{-2}$

Scan or tap for the full solution



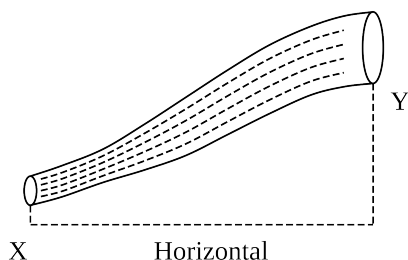
Q.4 The incorrect relation for a diamagnetic material (all the symbols carry their usual meaning and ϵ is a small positive number) is [RE-NEET (UG) 2024]

- (1) $\mu < \mu_0$ (2) $0 \leq \mu_r < 1$
(3) $-1 \leq \chi < 0$ (4) $1 < \mu_r < 1 + \epsilon$

Scan or tap for the full solution



Q.5 An ideal fluid is flowing in a non-uniform cross-sectional tube XY (as shown in the figure) from end X to end Y. If K_1 and K_2 are the kinetic energy per unit volume of the fluid at X and Y respectively, then the correct option is : [RE-NEET (UG) 2024]



(1) $K_1 = K_2$

(2) $2K_1 = K_2$

(3) $K_1 > K_2$

(4) $K_1 < K_2$

Scan or tap for the full solution



Q.6 The escape velocity for earth is v . A planet having 9 times mass that of earth and radius, 16 times that of earth, has the escape velocity of: [RE-NEET (UG) 2024]

- (1) $\frac{v}{3}$ (2) $\frac{2v}{3}$ (3) $\frac{3v}{4}$ (4) $\frac{9v}{4}$

Scan or tap for the full solution



Q.7 An electron and an alpha particle are accelerated by the same potential difference. Let λ_e and λ_α denote the de-Broglie wavelengths of the electron and the alpha particle, respectively, then: [RE-NEET (UG) 2024]

- (1) $\lambda_e > \lambda_\alpha$ (2) $\lambda_e = 4\lambda_\alpha$ (3) $\lambda_e = \lambda_\alpha$ (4) $\lambda_e < \lambda_\alpha$

Scan or tap for the full solution



Q.8 An object moving along horizontal x-direction with kinetic energy 10 J is displaced through $x = (3\hat{i})$ m by the force $\vec{F} = (-2\hat{i} + 3\hat{j})$ N. The kinetic energy of the object at the end of the displacement x is [RE-NEET (UG) 2024]

- (1) 10 J (2) 16 J (3) 4 J (4) 6 J

Scan or tap for the full solution



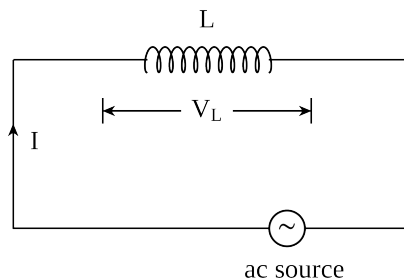
Q.9 An object falls from a height of 10 m above the ground. After striking the ground it loses 50% of its kinetic energy. The height upto which the object can rebound from the ground is: [RE-NEET (UG) 2024]

- (1) 7.5 m (2) 10 m (3) 2.5 m (4) 5 m

Scan or tap for the full solution



Q.10 In the circuit shown below, the inductance L is connected to an ac source. The current flowing in the circuit is $I = I_0 \sin \omega t$. The voltage drop (V_L) across L is [RE-NEET (UG) 2024]



- (1) $\omega LI_0 \sin \omega t$ (2) $\frac{I_0}{\omega L} \sin \omega t$
 (3) $\frac{I_0}{\omega L} \cos \omega t$ (4) $\omega LI_0 \cos \omega t$

Scan or tap for the full solution



Q.11 A 12 pF capacitor is connected to a 50 V battery, the electrostatic energy stored in the capacitor in nJ is

[RE-NEET (UG) 2024]

- (1) 15 (2) 7.5 (3) 0.3 (4) 150

Scan or tap for the full solution



Q.12 A uniform wire of diameter d carries a current of 100 mA when the mean drift velocity of electrons in the wire is v . For a wire of diameter $\frac{d}{2}$ of the same material to carry a current of 200 mA, the mean drift velocity of electrons in the wire is

[RE-NEET (UG) 2024]

- (1) $4v$ (2) $8v$ (3) v (4) $2v$

Scan or tap for the full solution



Q.13 In an electrical circuit, the voltage is measured as $V = (200 \pm 4)$ volt and the current is measured as $I = (20 \pm 0.2)$ A. The value of the resistance is:

[RE-NEET (UG) 2024]

- (1) $(10 \pm 4.2) \Omega$ (2) $(10 \pm 0.3) \Omega$
 (3) $(10 \pm 0.1) \Omega$ (4) $(10 \pm 0.8) \Omega$

Scan or tap for the full solution



Q.14 A step up transformer is connected to an ac mains supply of 220 V to operate at 11000 V, 88 watt. The current in the secondary circuit, ignoring the power loss in the transformer, is

[RE-NEET (UG) 2024]

- (1) 8 mA (2) 4 mA (3) 0.4 A (4) 4 A

Scan or tap for the full solution



Q.15 A particle is moving along x-axis with its position (x) varying with time (t) as $x = \alpha t^4 + \beta t^2 + \gamma t + \delta$. The ratio of its initial velocity to its initial acceleration, respectively, is:

[RE-NEET (UG) 2024]

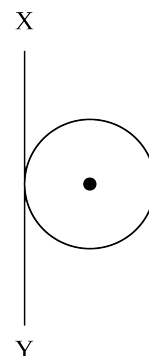
- (1) $2\alpha:\delta$ (2) $\gamma:2\delta$ (3) $4\alpha:\beta$ (4) $\gamma:2\beta$

Scan or tap for the full solution



Q.16 The radius of gyration of a solid sphere of mass 5 kg about XY is 5 m as shown in figure. The radius of the sphere is $\frac{5x}{\sqrt{7}}$ m, then the value of x is:

[RE-NEET (UG) 2024]

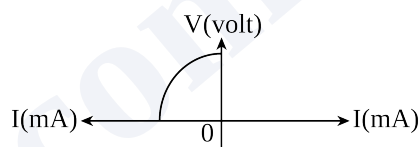


- (1) 5 (2) $\sqrt{2}$ (3) $\sqrt{3}$ (4) $\sqrt{5}$

Scan or tap for the full solution



Q.17



The I-V characteristics shown above are exhibited by a

[RE-NEET (UG) 2024]

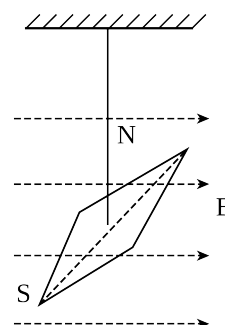
- (1) Light emitting diode (2) Zener diode
 (3) Photodiode (4) Solar cell

Scan or tap for the full solution



Q.18 The magnetic moment and moment of inertia of a magnetic needle as shown are, respectively, $1.0 \times 10^{-2} \text{ A m}^2$ and $\frac{10^{-6}}{\pi^2} \text{ kg m}^2$. If it completes 10 oscillations in 10 s, the magnitude of the magnetic field is

[RE-NEET (UG) 2024]



- (1) 0.4 T (2) 4 T (3) 0.4 mT (4) 4 mT

Scan or tap for the full solution



Q.19 The capacitance of a capacitor with charge q and a potential difference V depends on

[RE-NEET (UG) 2024]

- (1) both q and V
- (2) the geometry of the capacitor
- (3) q only
- (4) V only

Scan or tap for the
full solution



Q.20 Given below are two statements:

Statement-I: Image formation needs regular reflection and/or refraction.

Statement-II: The variety in colour of objects we see around us is due to the constituent colours of the light incident on them.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the
full solution



Q.21 A uniform metal wire of length l has $10\ \Omega$ resistance. Now this wire is stretched to a length $2l$ and then bent to form a perfect circle. The equivalent resistance across any arbitrary diameter of that circle is

[RE-NEET (UG) 2024]

- (1) $10\ \Omega$
- (2) $5\ \Omega$
- (3) $40\ \Omega$
- (4) $20\ \Omega$

Scan or tap for the
full solution



Q.22 The spectral series which corresponds to the electronic transition from the levels $n_2 = 5, 6, \dots$ to the level $n_1 = 4$ is

[RE-NEET (UG) 2024]

- (1) Pfund series
- (2) Brackett series
- (3) Lyman series
- (4) Balmer series

Scan or tap for the
full solution



Q.23 Given below are two statements: One is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A): Houses made of concrete roofs overlaid with foam keep the room hotter during summer.

Reason (R): The layer of foam insulation prohibits heat transfer, as it contains air pockets.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the
full solution



Q.24 A particle executing simple harmonic motion with amplitude A has the same potential and kinetic energies at the displacement

[RE-NEET (UG) 2024]

- (1) $2\sqrt{A}$
- (2) $\frac{A}{2}$
- (3) $\frac{A}{\sqrt{2}}$
- (4) $A\sqrt{2}$

Scan or tap for the
full solution



Q.25 Two slits in Young's double slit experiment are 1.5 mm apart and the screen is placed at a distance of 1 m from the slits. If the wavelength of light used is $600 \times 10^{-9}\text{ m}$ then the fringe separation is

[RE-NEET (UG) 2024]

- (1) $4 \times 10^{-5}\text{ m}$
- (2) $9 \times 10^{-8}\text{ m}$
- (3) $4 \times 10^{-7}\text{ m}$
- (4) $4 \times 10^{-4}\text{ m}$

Scan or tap for the
full solution



Q.26 Water is used as a coolant in a nuclear reactor because of its

[RE-NEET (UG) 2024]

- (1) high thermal expansion coefficient
- (2) high specific heat capacity
- (3) low density
- (4) low boiling point

Scan or tap for the
full solution



Q.27 The pitch of an error free screw gauge is 1 mm and there are 100 divisions on the circular scale. While measuring the diameter of a thick wire, the pitch scale reads 1 mm and 63^{rd} division on the circular scale coincides with the reference line. The diameter of the wire is:

[RE-NEET (UG) 2024]

- (1) 1.63 cm
- (2) 0.163 cm
- (3) 0.163 m
- (4) 1.63 m

Scan or tap for the
full solution



Q.28 Let us consider two solenoids A and B, made from same magnetic material of relative permeability μ_r and equal area of cross-section. Length of A is twice that of B and the number of turns per unit length in A is half that of B. The ratio of self inductances of the two solenoids, $L_A:L_B$ is

[RE-NEET (UG) 2024]

- (1) 1:2 (2) 2:1 (3) 8:1 (4) 1:8

Scan or tap for the full solution



Q.29 When the output of an OR gate is applied as input to a NOT gate, then the combination acts as a

[RE-NEET (UG) 2024]

- (1) NAND gate (2) NOR gate
(3) AND gate (4) OR gate

Scan or tap for the full solution



Q.30 Interference pattern can be observed due to superposition of the following waves:

- A. $y = a \sin \omega t$ B. $y = a \sin 2\omega t$
C. $y = a \sin(\omega t - \phi)$ D. $y = a \sin 3\omega t$

Choose the correct answer from the options given below.

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.31 If ϕ is the work function of photosensitive material in eV and light of wavelength of numerical value

$\lambda = \frac{hc}{e}$ metre, is incident on it with energy above its threshold value at an instant then the maximum kinetic energy of the photo-electron ejected by it at that instant (Take h-Planck's constant, c-velocity of light in free space) is (in SI units):

[RE-NEET (UG) 2024]

- (1) $e + 2\phi$ (2) $2e - \phi$ (3) $e - e\phi$ (4) $e + \phi$

Scan or tap for the full solution



Q.32 The electromagnetic radiation which has the smallest wavelength are

[RE-NEET (UG) 2024]

- (1) X-rays (2) Gamma rays
(3) Ultraviolet rays (4) Microwaves

Scan or tap for the full solution



Q.33 The equilibrium state of a thermodynamic system is described by

- A. Pressure B. Total heat
C. Temperature D. Volume
E. Work done

Choose the most appropriate answer from the options given below.

[RE-NEET (UG) 2024]

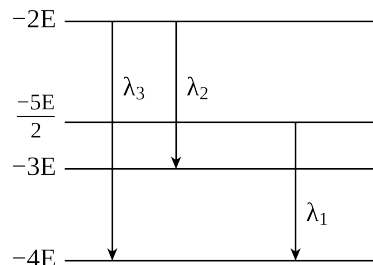
- (1) A, B and E only (2) B, C and D only
(3) A, B and C only (4) A, C and D only

Scan or tap for the full solution



Q.34 Some energy levels of a molecule are shown in the figure with their wavelengths of transitions. Then :

[RE-NEET (UG) 2024]



- (1) $\lambda_3 > \lambda_2$, $\lambda_1 = 2\lambda_2$ (2) $\lambda_3 > \lambda_2$, $\lambda_1 = 4\lambda_2$
(3) $\lambda_1 > \lambda_2$, $\lambda_2 = 2\lambda_3$ (4) $\lambda_2 > \lambda_1$, $\lambda_2 = 2\lambda_3$

Scan or tap for the full solution



Q.35 A box of mass 5 kg is pulled by a cord, up along a frictionless plane inclined at 30° with the horizontal. The tension in the cord is 30 N. The acceleration of the box is (Take $g = 10 \text{ m s}^{-2}$)

[RE-NEET (UG) 2024]

- (1) 2 m s^{-2} (2) Zero
(3) 0.1 m s^{-2} (4) 1 m s^{-2}

Scan or tap for the full solution



Q.36 If the ratio of relative permeability and relative permittivity of a uniform medium is 1:4. The ratio of the magnitudes of electric field intensity (E) to the magnetic field intensity (H) of an EM wave propagating in that medium is (Given that

$$\sqrt{\frac{\mu_0}{\epsilon_0}} = 120\pi):$$

[RE-NEET (UG) 2024]

- (1) 30 π :1 (2) 1:120 π (3) 60 π :1 (4) 120 π :1

Scan or tap for the full solution



Q.37 The value of electric potential at a distance of 9 cm from the point charge $4 \times 10^{-7} \text{ C}$ is [Given

$$\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ N m}^2 \text{ C}^{-2}]:$$

[RE-NEET (UG) 2024]

- (1) $4 \times 10^2 \text{ V}$ (2) 44.4 V
(3) $4.4 \times 10^5 \text{ V}$ (4) $4 \times 10^4 \text{ V}$

Scan or tap for the full solution



Q.38 The displacement of a travelling wave

$y = C \sin \frac{2\pi}{\lambda}(at - x)$ where t is time, x is distance and λ is the wavelength, all in S.I. units. Then the frequency of the wave is

[RE-NEET (UG) 2024]

- (1) $\frac{2\pi\lambda}{a}$ (2) $\frac{2\pi a}{\lambda}$ (3) $\frac{\lambda}{a}$ (4) $\frac{a}{\lambda}$

Scan or tap for the full solution



Q.39 An object of mass 100 kg falls from point A to B as shown in figure. The change in its weight, corrected to the nearest integer is (R_E is the radius of the earth)

[RE-NEET (UG) 2024]

(1) 49 N (2) 89 N (3) 5 N (4) 10 N

Scan or tap for the full solution

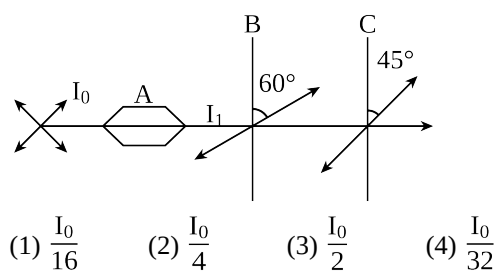
- Q.40** The potential energy of a particle moving along x-direction varies as $V = \frac{Ax^2}{\sqrt{x+B}}$. The dimensions of $\frac{A^2}{B}$ are: [RE-NEET (UG) 2024]
- (1) $[M^{3/2} L^{1/2} T^{-3}]$ (2) $[M^{1/2} L T^{-3}]$
 (3) $[M^2 L^{1/2} T^{-4}]$ (4) $[ML^2 T^{-4}]$

Scan or tap for the full solution

- Q.41** The two-dimensional motion of a particle, described by $\vec{r} = (\hat{i} + 2\hat{j})A \cos \omega t$ is a/an:
- A. parabolic path
 B. elliptical path
 C. periodic motion
 D. simple harmonic motion
- Choose the correct answer from the options given below: [RE-NEET (UG) 2024]
- (1) B, C and D only (2) A, B and C only
 (3) A, C and D only (4) C and D only

Scan or tap for the full solution

- Q.42** A beam of unpolarized light of intensity I_0 is passed through a polaroid A, then through another polaroid B, oriented at 60° and finally through another polaroid C, oriented at 45° relative to B as shown. The intensity of emergent light is: [RE-NEET (UG) 2024]



Scan or tap for the full solution

- Q.43** Select the correct statements among the following :
 Choose the most appropriate answer from the options given below :

- A. Slow neutrons can cause fission in $^{235}_{92}\text{U}$ more readily than fast neutrons.
 B. α -rays are Helium nuclei.
 C. β -rays are fast moving electrons or positrons.
 D. γ -rays are electromagnetic radiations of wavelengths larger than X-rays.

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution

- Q.44** Let ω_1 , ω_2 and ω_3 be the angular speed of the second hand, minute hand and hour hand of a smoothly running analog clock, respectively. If x_1 , x_2 and x_3 are their respective angular distances in 1 minute then the factor which remains constant (k) is [RE-NEET (UG) 2024]

- (1) $\frac{\omega_1}{x_1} = \frac{\omega_2}{x_2} = \frac{\omega_3}{x_3} = k$
 (2) $\omega_1 x_1 = \omega_2 x_2 = \omega_3 x_3 = k$
 (3) $\omega_1 x_1^2 = \omega_2 x_2^2 = \omega_3 x_3^2 = k$
 (4) $\omega_1^2 x_1 = \omega_2^2 x_2 = \omega_3^2 x_3 = k$

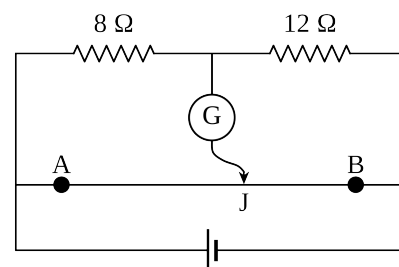
Scan or tap for the full solution

- Q.45** The magnetic moment of an iron bar is M. It is now bent in such a way that it forms an arc section of a circle subtending an angle of 60° at the centre. The magnetic moment of this arc section is [RE-NEET (UG) 2024]

- (1) $\frac{3M}{\pi}$ (2) $\frac{4M}{\pi}$ (3) $\frac{M}{\pi}$ (4) $\frac{2M}{\pi}$

Scan or tap for the full solution

- Q.46** The given circuit shows a uniform straight wire AB of 40 cm length fixed at both ends. In order to get zero reading in the galvanometer G, the free end of J is to be placed from B at: [RE-NEET (UG) 2024]



- (1) 32 cm (2) 8 cm (3) 16 cm (4) 24 cm

Scan or tap for the full solution

- Q.47** Which of the following molecules has "NON ZERO" dipole moment value? [RE-NEET (UG) 2024]
- (1) CCl_4 (2) HI (3) CO_2 (4) BF_3

Scan or tap for the full solution

- Q.48** According to the law of equipartition of energy, the number of vibrational modes of a polyatomic gas of constant $\gamma = \frac{C_p}{C_v}$ is (C_p and C_v are the specific heat capacities of the gas at constant pressure and constant volume, respectively):

[RE-NEET (UG) 2024]

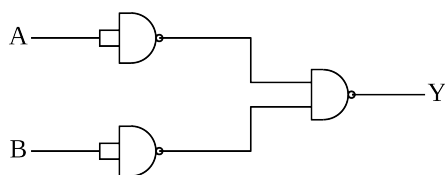
- (1) $\frac{4+3\gamma}{\gamma-1}$ (2) $\frac{3+4\gamma}{\gamma-1}$ (3) $\frac{4-3\gamma}{\gamma-1}$ (4) $\frac{3-4\gamma}{\gamma-1}$

Scan or tap for the full solution



- Q.49** The output Y for the inputs A and B of the given logic circuit is:

[RE-NEET (UG) 2024]



- (1) $A \cdot B$ (2) $\bar{A} \cdot \bar{B}$ (3) $A + B$ (4) $\bar{A} + \bar{B}$

Scan or tap for the full solution



- Q.50** The amplitude of the charge oscillating in a circuit decreases exponentially as $Q = Q_0 e^{-Rt/2L}$, where Q_0 is the charge at $t = 0$ s. The time at which charge amplitude decreases to $0.50Q_0$ is nearly:

[Given that $R = 1.5 \Omega$, $L = 12 \text{ mH}$, $\ln(2) = 0.693$]

[RE-NEET (UG) 2024]

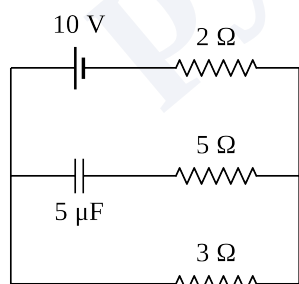
- (1) 19.01 ms (2) 11.09 ms
(3) 19.01 s (4) 11.09 s

Scan or tap for the full solution



- Q.51** The steady state current in the circuit shown below is:

[RE-NEET (UG) 2024]



- (1) 0.67 A (2) 1.5 A (3) 2 A (4) 1 A

Scan or tap for the full solution



- Q.52** The correct decreasing order of atomic radii (pm) of Li, Be, B and C is

[RE-NEET (UG) 2024]

- (1) $\text{Be} > \text{Li} > \text{B} > \text{C}$ (2) $\text{Li} > \text{Be} > \text{B} > \text{C}$
(3) $\text{C} > \text{B} > \text{Be} > \text{Li}$ (4) $\text{Li} > \text{C} > \text{Be} > \text{B}$

Scan or tap for the full solution



- Q.53** Following data is for a reaction between reactants A and B:

Rate ($\text{mol L}^{-1} \text{s}^{-1}$)	[A]	[B]
2×10^{-3}	0.1 M	0.1 M
4×10^{-3}	0.2 M	0.1 M
1.6×10^{-2}	0.2 M	0.2 M

The order of the reaction with respect to A and B, respectively, are

[RE-NEET (UG) 2024]

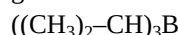
- (1) 1, 0 (2) 0, 1 (3) 1, 2 (4) 2, 1

Scan or tap for the full solution

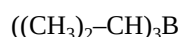


- Q.54** Given below are two statements:

Statement-I: Propene on treatment with diborane gives an addition product with the formula



Statement-II: Oxidation of



with hydrogen peroxide in presence of NaOH gives propan-2-ol.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



- Q.55** Baeyer's reagent is:

[RE-NEET (UG) 2024]

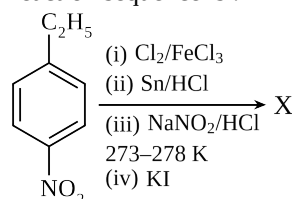
- (1) Acidic potassium permanganate solution
(2) Acidic potassium dichromate solution
(3) Cold, dilute, aqueous solution of potassium permanganate
(4) Hot, concentrated solution of potassium permanganate

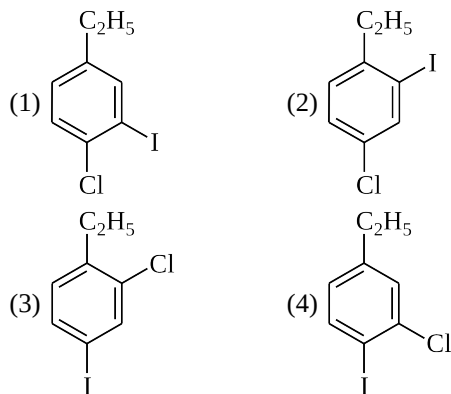
Scan or tap for the full solution



- Q.56** The major product X formed in the following reaction sequence is:

[RE-NEET (UG) 2024]





Scan or tap for the full solution

Q.57 Which indicator is used in the titration of sodium hydroxide against oxalic acid and what is the colour change at the end point? [RE-NEET (UG) 2024]

- (1) Phenolphthalein, pink to yellow
- (2) Alkaline KMnO_4 , colourless to pink
- (3) Phenolphthalein, colourless to pink
- (4) Methyl orange, yellow to pinkish red colour

Scan or tap for the full solution

Q.58 Match List I with List II :

List - I (Atom/Molecule)		List - II (Property)	
A.	Nitrogen atom	I.	Paramagnetic
B.	Fluorine molecule	II.	Most reactive element in group 18
C.	Oxygen molecule	III.	Element with highest ionisation enthalpy in group 15
D.	Xenon atom	IV.	Strongest oxidising agent

Identify the correct answer from the options given below : [RE-NEET (UG) 2024]

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

Scan or tap for the full solution

Q.59 From the following select the one which is not an example of corrosion. [RE-NEET (UG) 2024]

- (1) Rusting of iron object
- (2) Production of hydrogen by electrolysis of water
- (3) Tarnishing of silver
- (4) Development of green coating on copper and bronze ornaments

Scan or tap for the full solution

Q.60 Which of the following pairs of ions will have same spin only magnetic moment values within the pair?

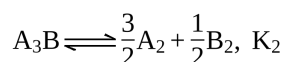
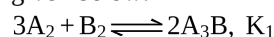
- A. Zn^{2+} , Ti^{2+}
- B. Cr^{2+} , Fe^{2+}
- C. Ti^{3+} , Cu^{2+}
- D. V^{2+} , Cu^{+}

Choose the correct answer from the options given below : [RE-NEET (UG) 2024]

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

Scan or tap for the full solution

Q.61 At a given temperature and pressure, the equilibrium constant values for the equilibria are given below:



The relation between K_1 and K_2 is :

[RE-NEET (UG) 2024]

- (1) $K_1^2 = 2K_2$
- (2) $K_2 = \frac{K_1}{2}$
- (3) $K_1 = \frac{1}{\sqrt{K_2}}$
- (4) $K_2 = \frac{1}{\sqrt{K_1}}$

Scan or tap for the full solution

Q.62 Arrange the following compounds in increasing order of their solubilities in chloroform:

NaCl , CH_3OH , cyclohexane, CH_3CN

[RE-NEET (UG) 2024]

- (1) $\text{NaCl} < \text{CH}_3\text{CN} < \text{CH}_3\text{OH} < \text{Cyclohexane}$
- (2) $\text{CH}_3\text{OH} < \text{CH}_3\text{CN} < \text{NaCl} < \text{Cyclohexane}$
- (3) $\text{NaCl} < \text{CH}_3\text{OH} < \text{CH}_3\text{CN} < \text{Cyclohexane}$
- (4) $\text{Cyclohexane} < \text{CH}_3\text{CN} < \text{CH}_3\text{OH} < \text{NaCl}$

Scan or tap for the full solution

Q.63 Identify the incorrect statement about PCl_5 .

[RE-NEET (UG) 2024]

- (1) PCl_5 possesses two different Cl-P-Cl bond angles
- (2) All five P-Cl bonds are identical in length
- (3) PCl_5 exhibits sp^3d hybridisation
- (4) PCl_5 consists of five P-Cl (sigma) bonds

Scan or tap for the full solution

Q.64 Choose the correct statement for the work done in the expansion and heat absorbed or released when 5 litres of an ideal gas at 10 atmospheric pressure isothermally expands into vacuum until volume is 15 litres :

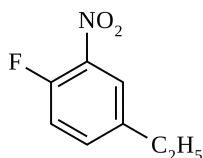
[RE-NEET (UG) 2024]

- (1) Both the heat and work done will be greater than zero
 (2) Heat absorbed will be less than zero and work done will be positive
 (3) Work done will be zero and heat will also be zero
 (4) Work done will be greater than zero and heat will remain zero

Scan or tap for the full solution



Q.65 The correct IUPAC name of the compound



is :

[RE-NEET (UG) 2024]

- (1) 4-ethyl-1-fluoro-2-nitrobenzene
 (2) 4-ethyl-1-fluoro-6-nitrobenzene
 (3) 3-ethyl-6-fluoro-1-nitrobenzene
 (4) 1-ethyl-4-fluoro-3-nitrobenzene

Scan or tap for the full solution



Q.66 Which of the following set of ions act as oxidising agents?

[RE-NEET (UG) 2024]

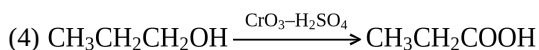
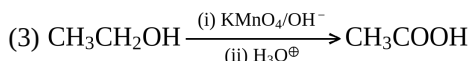
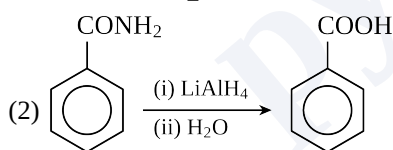
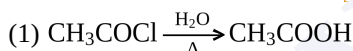
- (1) Ce^{4+} and Tb^{4+} (2) La^{3+} and Lu^{3+}
 (3) Eu^{2+} and Yb^{2+} (4) Eu^{2+} and Tb^{4+}

Scan or tap for the full solution



Q.67 Select the incorrect reaction among the following :

[RE-NEET (UG) 2024]



Scan or tap for the full solution



Q.68 The UV-visible absorption bands in the spectra of lanthanoid ions are 'X', probably because of the excitation of electrons involving 'Y'. The 'X' and 'Y', respectively, are :

[RE-NEET (UG) 2024]

- (1) Broad and f orbitals
 (2) Narrow and f orbitals
 (3) Broad and d and f orbitals
 (4) Narrow and d and f orbitals

Scan or tap for the full solution



Q.69 Ethylene diaminetetraacetate ion is a/an:

[RE-NEET (UG) 2024]

- (1) hexadentate ligand (2) ambidentate ligand
 (3) monodentate ligand (4) bidentate ligand

Scan or tap for the full solution



Q.70 The amount of glucose required to prepare 250 mL of $\frac{M}{20}$ aqueous solution is :

(Molar mass of glucose : 180 g mol^{-1})

[RE-NEET (UG) 2024]

- (1) 2.25 g (2) 4.5 g (3) 0.44 g (4) 1.125 g

Scan or tap for the full solution



Q.71 Identify the incorrect statement from the following :

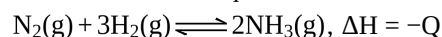
[RE-NEET (UG) 2024]

- (1) The acidic strength of HX (X = F, Cl, Br and I) follows the order: $\text{HF} > \text{HCl} > \text{HBr} > \text{HI}$.
 (2) Fluorine exhibits -1 oxidation state whereas other halogens exhibit +1, +3, +5 and +7 oxidation states also.
 (3) The enthalpy of dissociation of F_2 is smaller than that of Cl_2 .
 (4) Fluorine is stronger oxidising agent than chlorine.

Scan or tap for the full solution



Q.72 For the reaction in equilibrium



Reaction is favoured in forward direction by:

[RE-NEET (UG) 2024]

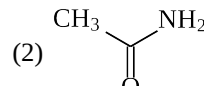
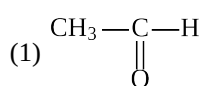
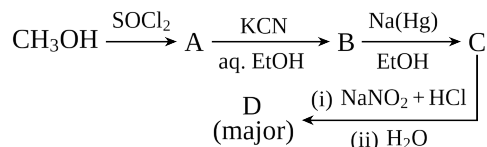
- (1) use of catalyst
 (2) decreasing concentration of N_2
 (3) low pressure, high temperature and high concentration of ammonia
 (4) high pressure, low temperature and higher concentration of H_2

Scan or tap for the full solution



Q.73 The major product D formed in the following reaction sequence is :

[RE-NEET (UG) 2024]



Scan or tap for the full solution



Q.74 Match **List I** with **List II**:

List - I (Block/group in periodic table)		List - II (Element)	
A.	Lanthanoid	I.	Ce
B.	d-block element	II.	As
C.	p-block element	III.	Cs
D.	s-block element	IV.	Mn

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.75 Which of the following is not an ambidentate ligand?

[RE-NEET (UG) 2024]

- (1) $\text{C}_2\text{O}_4^{2-}$ (2) SCN^- (3) NO_2^- (4) CN^-

Scan or tap for the full solution



Q.76 The quantum numbers of four electrons are given below :

I. $n = 4; l = 2; m_l = -2; s = -\frac{1}{2}$

II. $n = 3; l = 2; m_l = 1; s = +\frac{1}{2}$

III. $n = 4; l = 1; m_l = 0; s = +\frac{1}{2}$

IV. $n = 3; l = 1; m_l = -1; s = +\frac{1}{2}$

The correct decreasing order of energy of these electrons is

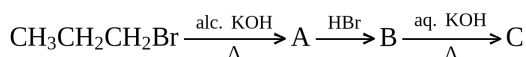
[RE-NEET (UG) 2024]

- (1) $\text{IV} > \text{II} > \text{III} > \text{I}$ (2) $\text{I} > \text{III} > \text{II} > \text{IV}$
(3) $\text{III} > \text{I} > \text{II} > \text{IV}$ (4) $\text{I} > \text{II} > \text{III} > \text{IV}$

Scan or tap for the full solution



Q.77 The major product C in the below mentioned reaction is:



[RE-NEET (UG) 2024]

- (1) Propan-1-ol (2) Propan-2-ol
(3) Propane (4) Propyne

Scan or tap for the full solution



Q.78 The compound that does not undergo Friedel-Crafts alkylation reaction but gives a positive carbylamine test is :

[RE-NEET (UG) 2024]

- (1) Aniline (2) Pyridine
(3) N-methylaniline (4) Triethylamine

Scan or tap for the full solution



Q.79 For an endothermic reaction:

A. q_p is negative. B. $\Delta_r H$ is positive.

C. $\Delta_r H$ is negative. D. q_p is positive.

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.80 1.0 g of H_2 has same number of molecules as in:

[RE-NEET (UG) 2024]

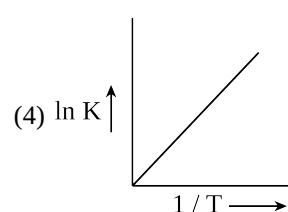
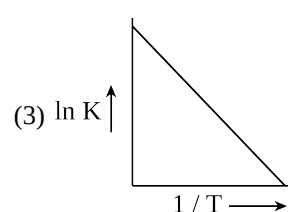
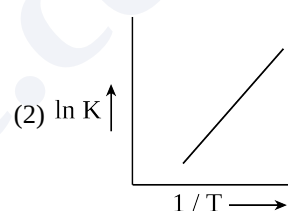
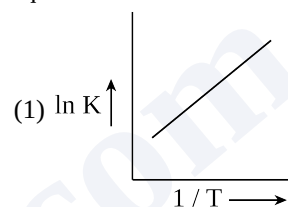
- (1) 14 g of N_2 (2) 18 g of H_2O
(3) 16 g of CO (4) 28 g of N_2

Scan or tap for the full solution



Q.81 Which of the following plot represents the variation of $\ln k$ versus $\frac{1}{T}$ in accordance with Arrhenius equation?

[RE-NEET (UG) 2024]



Scan or tap for the full solution



Q.82 A steam volatile organic compound which is immiscible with water has a boiling point of 250°C . During steam distillation, a mixture of this organic compound and water will boil :

[RE-NEET (UG) 2024]

- (1) above 100°C but below 250°C
 (2) above 250°C
 (3) at 250°C
 (4) close to but below 100°C

Scan or tap for the
full solution



Q.83 Given below are two statements :

Statement-I: Glycogen is similar to amylose in its structure.

Statement-II: Glycogen is found in yeast and fungi also.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the
full solution



Q.84 The oxidation states not shown by Mn in given reaction are :



- A. +6 B. +2
 C. +4 D. +7
 E. +3

Choose the most appropriate answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the
full solution



Q.85 Given below are two statements:

Statement-I: The Balmer spectral line for H atom with lowest energy is located at $\frac{5}{36}R_H \text{ cm}^{-1}$.

(R_H = Rydberg constant)

Statement-II: When the temperature of blackbody increases, the maxima of the curve (intensity and wavelength) shifts to shorter wavelength.

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

[RE-NEET (UG) 2024]

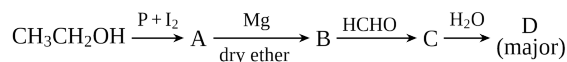
- (1) Statement-I is true but Statement-II is false
 (2) Statement-I is false but Statement-II is true
 (3) Both Statement-I and Statement-II are true
 (4) Both Statement-I and Statement-II are false

Scan or tap for the
full solution



Q.86 Identify D in the following sequence of reactions:

[RE-NEET (UG) 2024]



- (1) n-propyl alcohol (2) isopropyl alcohol
 (3) propanal (4) propionic acid

Scan or tap for the
full solution



Q.87 Identify the incorrect statement.

[RE-NEET (UG) 2024]

- (1) PEt_3 and AsPh_3 as ligands can form $d\pi - d\pi$ bond with transition metals
 (2) The N - N single bond is as strong as the P - P single bond
 (3) Nitrogen has unique ability to form $p\pi - p\pi$ multiple bonds with nitrogen, carbon and oxygen
 (4) Nitrogen cannot form $d\pi - p\pi$ bond as other heavier elements of its group

Scan or tap for the
full solution



Q.88 Match List-I with List-II :

List - I (Test/reagent)		List - II (Radical identified)	
A.	Lake Test	I.	NO_3^-
B.	Nessler's Reagent	II.	Fe^{3+}
C.	Potassium sulphocyanide	III.	Al^{3+}
D.	Brown Ring Test	IV.	NH_4^+

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the
full solution



Q.89 Match List-I with List-II:

List - I Molecule		List - II Bond enthalpy (kJ mol^{-1})	
A.	HCl	I.	435.8
B.	N_2	II.	498
C.	H_2	III.	946.0
D.	O_2	IV.	431.0

Choose the correct answer from the options given below:

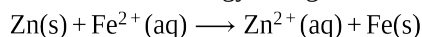
[RE-NEET (UG) 2024]

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

Scan or tap for the
full solution



- Q.90** The standard cell potential of the following cell $\text{Zn} | \text{Zn}^{2+}(\text{aq}) || \text{Fe}^{2+}(\text{aq}) | \text{Fe}$ is 0.32 V. Calculate the standard Gibbs energy change for the reaction:



(Given : 1 F = 96487 C) [RE-NEET (UG) 2024]

- (1) $-61.75 \text{ kJ mol}^{-1}$ (2) $+5.006 \text{ kJ mol}^{-1}$
 (3) $-5.006 \text{ kJ mol}^{-1}$ (4) $+61.75 \text{ kJ mol}^{-1}$

Scan or tap for the full solution



- Q.91** Match List I with List II:

List-I Solid salt treated with dil. H_2SO_4		List-II Anion detected	
A.	effervescence of colourless gas	I.	NO_2^-
B.	gas with smell of rotten egg	II.	CO_3^{2-}
C.	gas with pungent smell	III.	S^{2-}
D.	brown fumes	IV.	SO_3^{2-}

Choose the correct answer from the options given below: [RE-NEET (UG) 2024]

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

Scan or tap for the full solution



- Q.92** The ratio of solubility of AgCl in 0.1 M KCl solution to the solubility of AgCl in water is:
 (Given : Solubility product of AgCl = 10^{-10})

[RE-NEET (UG) 2024]

- (1) 10^{-4} (2) 10^{-6} (3) 10^{-9} (4) 10^{-5}

Scan or tap for the full solution



- Q.93** On complete combustion, 0.3 g of an organic compound gave 0.2 g of CO_2 and 0.1 g of H_2O . The percentage composition of carbon and hydrogen in the compound, respectively is:

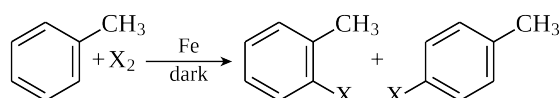
[RE-NEET (UG) 2024]

- (1) 4.07% and 15.02% (2) 18.18% and 3.70%
 (3) 15.02% and 4.07% (4) 3.70% and 18.18%

Scan or tap for the full solution



- Q.94** The following reaction method



is not suitable for the preparation of the corresponding haloarene products, due to high reactivity of halogen, when X is :

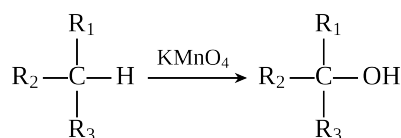
[RE-NEET (UG) 2024]

- (1) F (2) I (3) Cl (4) Br

Scan or tap for the full solution



- Q.95** The alkane that can be oxidized to the corresponding alcohol by KMnO_4 as per the equation



is, when :

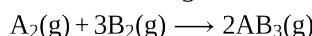
[RE-NEET (UG) 2024]

- (1) $\text{R}_1 = \text{H}; \text{R}_2 = \text{H}; \text{R}_3 = \text{H}$
 (2) $\text{R}_1 = \text{CH}_3; \text{R}_2 = \text{CH}_3; \text{R}_3 = \text{CH}_3$
 (3) $\text{R}_1 = \text{CH}_3; \text{R}_2 = \text{H}; \text{R}_3 = \text{H}$
 (4) $\text{R}_1 = \text{CH}_3; \text{R}_2 = \text{CH}_3; \text{R}_3 = \text{H}$

Scan or tap for the full solution



- Q.96** For the following reaction at 300 K



the enthalpy change is +15 kJ, then the internal energy change is :

[RE-NEET (UG) 2024]

- (1) 19988.4 J (2) 200 J
 (3) 1999 J (4) 1.9988 kJ

Scan or tap for the full solution



- Q.97** Rate constants of a reaction at 500 K and 700 K are 0.04 s^{-1} and 0.14 s^{-1} , respectively; then, activation energy of the reaction is :

(Given: $\log 3.5 = 0.5441$, $R = 8.31 \text{ J K}^{-1} \text{ mol}^{-1}$)

[RE-NEET (UG) 2024]

- (1) 182310 J (2) 18500 J
 (3) 18219 J (4) 18030 J

Scan or tap for the full solution



- Q.98** Mass of glucose ($\text{C}_6\text{H}_{12}\text{O}_6$) required to be dissolved to prepare one litre of its solution which is isotonic with 15 g L^{-1} solution of urea (NH_2CONH_2) is
 (Given: Molar mass in g mol^{-1} C : 12, H : 1, O : 16, N : 14)

[RE-NEET (UG) 2024]

- (1) 55 g (2) 15 g (3) 30 g (4) 45 g

Scan or tap for the full solution



- Q.99** $[\text{Mn}_2(\text{CO})_{10}]$ and $[\text{Co}_2(\text{CO})_8]$ structures have

- A. Metal-Metal linkage
 B. Terminal CO groups
 C. Bridging CO groups
 D. Metal in zero oxidation state

Choose the correct answer from the options given below [RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.100 Methyl group attached to a positively charged carbon atom stabilizes the carbocation due to

[RE-NEET (UG) 2024]

- (1) -I inductive effect (2) electromeric effect
(3) hyperconjugation (4) mesomeric effect

Scan or tap for the full solution



Q.101 The regions with high level of species richness, high degree of endemism and a loss of 70% of the species and habitat are identified as:

[RE-NEET (UG) 2024]

- (1) Natural Reserves
(2) Sacred Groves
(3) Biodiversity Hotspots
(4) Biogeographical Regions

Scan or tap for the full solution



Q.102 Which of the following simple tissues are commonly found in the fruit walls of nuts and pulp of pear?

[RE-NEET (UG) 2024]

- (1) Sclereids (2) Fibres
(3) Parenchyma (4) Collenchyma

Scan or tap for the full solution



Q.103 Given below are two statements:

Statement-I: When many alleles of a single gene govern a character, it is called polygenic inheritance.

Statement-II: In Polygenic inheritance, the effect of each allele is additive.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.104 Which of the following are required for the light reaction of Photosynthesis?

- A. CO₂ B. O₂
C. H₂O D. Chlorophyll
E. Light

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.105 Match List I with List II :

List - I		List - II	
A.	Flemming	I.	Disc shaped sacs or cisternae near cell nucleus
B.	Robert Brown	II.	Chromatin
C.	George Palade	III.	Ribosomes
D.	Camillo Golgi	IV.	Nucleus

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.106 Match List-I with List-II:

List - I Type of Inheritance		List - II Example	
A.	Incomplete dominance	I.	Blood groups in human
B.	Co-dominance	II.	Flower colour in <i>Antirrhinum</i>
C.	Pleiotropy	III.	Skin colour in human
D.	Polygenic inheritance	IV.	Phenylketonuria

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.107 Which part of the ovule stores reserve food materials?

[RE-NEET (UG) 2024]

- (1) Nucellus (2) Integument
(3) Placenta (4) Funicle

Scan or tap for the full solution



Q.108 Which one of the following is not found in Gymnosperms?

[RE-NEET (UG) 2024]

- (1) Sieve cells (2) Albuminous cells
(3) Tracheids (4) Vessels

Scan or tap for the full solution



Q.109 Which one of the following is not included under in-situ conservation? [RE-NEET (UG) 2024]

- (1) Wild-life sanctuary (2) Botanical garden
(3) Biosphere reserve (4) National park

Scan or tap for the full solution



Q.110 Pollen grains remain preserved as fossils due to the presence of : [RE-NEET (UG) 2024]

- (1) Epidermal layer (2) Tapetum
(3) Exine layer (4) Intine layer

Scan or tap for the full solution



Q.111 Identify the incorrect pair : [RE-NEET (UG) 2024]

- (1) Sphenopsida – *Adiantum*
(2) Pteropsida – *Dryopteris*
(3) Psilopsida – *Psilotum*
(4) Lycopsida – *Selaginella*

Scan or tap for the full solution



Q.112 Which of the following is the correct match?

[RE-NEET (UG) 2024]

- (1) Gymnosperms : *Cedrus*, *Pinus*, *Sequoia*
(2) Angiosperms : *Wolffia*, *Eucalyptus*, *Sequoia*
(3) Bryophytes : *Polytrichum*, *Polysiphonia*, *Sphagnum*
(4) Pteridophytes : *Equisetum*, *Ginkgo*, *Adiantum*

Scan or tap for the full solution



Q.113 Given below are two statements regarding RNA polymerase in prokaryotes.

Statement-I: In prokaryotes, RNA polymerase is capable of catalysing the process of elongation during transcription.

Statement-II: RNA polymerase associate transiently with 'Rho' factor to initiate transcription.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.114 Which of the following is a nucleotide?

[RE-NEET (UG) 2024]

- (1) Uridine (2) Adenylic acid
(3) Guanine (4) Guanosine

Scan or tap for the full solution



Q.115 Match List-I with List-II :

List - I		List - II	
A.	Vexillary aestivation	I.	Brinjal
B.	Epipetalous stamens	II.	Peach
C.	Epiphyllous stamens	III.	Pea
D.	Perigynous flower	IV.	Lily

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.116 Match List-I with List-II :

List - I		List - II	
A.	China rose	I.	Free central
B.	Mustard	II.	Basal
C.	Primrose	III.	Axile
D.	Marigold	IV.	Parietal

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.117 Which of the following helps in maintenance of the pressure gradient in sieve tubes?

[RE-NEET (UG) 2024]

- (1) Albuminous cells (2) Sieve cells
(3) Phloem parenchyma (4) Companion cells

Scan or tap for the full solution



Q.118 Mesosome in a cell is a : [RE-NEET (UG) 2024]

- (1) Membrane bound vesicular structure
(2) Chain of many ribosomes attached to a single mRNA
(3) Special structure formed by extension of plasma membrane
(4) Medium sized chromosome

Scan or tap for the full solution



Q.119 Match List-I with List-II : [RE-NEET (UG) 2024]

List-I		List-II	
A.	Abscisic acid	I.	Promotes female flowers in cucumber
B.	Ethylene	II.	Helps seeds to withstand desiccation

List-I		List-II	
C.	Gibberellin	III.	Helps in nutrient mobilisation
D.	Cytokinin	IV.	Promotes bolting in beet, cabbage etc.

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

Scan or tap for the full solution



Q.120 Match **List-I** with **List-II**: [RE-NEET (UG) 2024]

List-I		List-II	
A.	ETS Complex I	I.	NADH Dehydrogenase
B.	ETS Complex II	II.	Cytochrome bc ₁
C.	ETS Complex III	III.	Cytochrome c oxidase
D.	ETS Complex IV	IV.	Succinate Dehydrogenase

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

Scan or tap for the full solution



Q.121 Cryopreservation technique is used for :

[RE-NEET (UG) 2024]

- (1) Protection of environment
- (2) Protection of Biodiversity hotspots
- (3) Preservation of gametes in viable and fertile condition for a long period
- (4) In-situ conservation

Scan or tap for the full solution



Q.122 Which of the following are correct about cellular respiration?

- A. Cellular respiration is the breaking of C-C bonds of complex organic molecules by oxidation.
- B. The entire cellular respiration takes place in Mitochondria.
- C. Fermentation takes place under anaerobic condition in germinating seeds.
- D. The fate of pyruvate formed during glycolysis depends on the type of organism also.
- E. Water is formed during respiration as a result of O₂ accepting electrons and getting reduced.

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.123 Given below are two statements:

Statement-I: In eukaryotes there are three RNA polymerases in the nucleus in addition to the RNA polymerase found in the organelles.

Statement-II: All the three RNA polymerases in eukaryotic nucleus have different roles.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.124 Match **List-I** with **List-II**: [RE-NEET (UG) 2024]

List-I		List-II	
A.	Histones	I.	Loosely packed chromatin
B.	Nucleosome	II.	Densely packed chromatin
C.	Euchromatin	III.	Positively charged basic proteins
D.	Heterochromatin	IV.	DNA wrapped around histone octamer

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

Scan or tap for the full solution



Q.125 Given below are two statements:

Statement-I: Failure of segregation of chromatids during cell cycle resulting in the gain or loss of whole set of chromosome in an organism is known as aneuploidy.

Statement-II: Failure of cytokinesis after anaphase stage of cell division results in the gain or loss of a chromosome is called polyploidy.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.126 Recombination between homologous chromosomes is completed by the end of

[RE-NEET (UG) 2024]

- (1) Diakinesis (2) Zygotene
(3) Diplotene (4) Pachytene

Scan or tap for the full solution



Q.127 Match List-I with List-II : [RE-NEET (UG) 2024]

List-I		List-II	
A.	Metacentric chromosome	I.	Chromosome has a terminal centromere
B.	Sub-metacentric chromosome	II.	Middle centromere forming two equal arms of chromosome
C.	Acrocentric chromosome	III.	Centromere is slightly away from the middle of chromosome resulting into two unequal arms
D.	Telocentric chromosome	IV.	Centromere is situated close to its end forming one extremely short and one very long arm

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

Scan or tap for the full solution



Q.128 Ligases is a class of enzymes responsible for catalysing the linking together of two compounds. Which of the following bonds is not catalysed by it?

[RE-NEET (UG) 2024]

- (1) C – C (2) P – O (3) C – O (4) C – N

Scan or tap for the full solution



Q.129 F. Skoog observed that callus proliferated from the internodal segments of tobacco stem when auxin was supplied with one of the following except :

[RE-NEET (UG) 2024]

- (1) Extract of Vascular tissues
(2) Coconut milk
(3) Absciscic acid
(4) Yeast Extract

Scan or tap for the full solution



Q.130 Given below are some statements about plant growth regulators.

- A. All GAs are acidic in nature.
B. Auxins are antagonists to GAs.
C. Zeatin was isolated from coconut milk.
D. Ethylene induces flowering in Mango.
E. Absciscic acid induces parthenocarpy.

Choose the correct set of statements from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.131 Which of the following examples show monocarpellary, unilocular ovary with many ovules?

- A. *Sesbania* B. Brinjal
C. *Indigofera* D. Tobacco
E. *Asparagus*

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.132 Given below are two statements :

Statement-I: In the lac operon, the z gene codes for beta-galactosidase which is primarily responsible for the hydrolysis of lactose into galactose and glucose.

Statement-II: In addition to lactose, glucose or galactose can also induce lac operon.

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

[RE-NEET (UG) 2024]

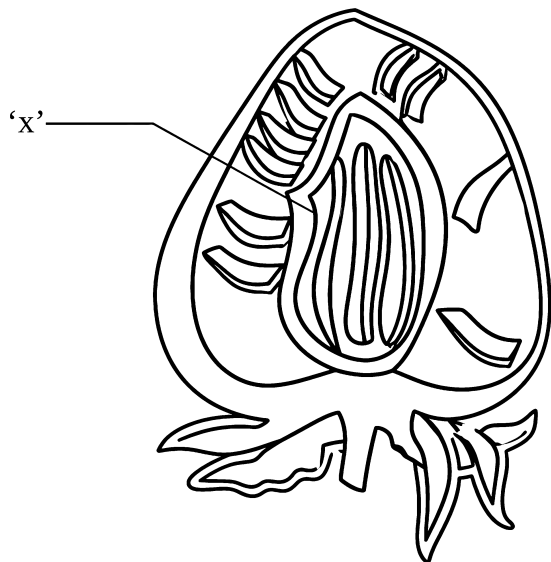
- (1) Statement-I is true but Statement-II is false
(2) Statement-I is false but Statement-II is true
(3) Both Statement-I and Statement-II are true
(4) Both Statement-I and Statement-II are false

Scan or tap for the full solution



Q.133 The part marked as 'x' in the given figure is

[RE-NEET (UG) 2024]



- (1) Endosperm (2) Thalamus
(3) Endocarp (4) Mesocarp

Scan or tap for the full solution

Q.134 Given below are two statements:

Statement-I: In a dicotyledonous leaf, the adaxial epidermis generally bears more stomata than the abaxial epidermis.

Statement-II: In a dicotyledonous leaf, the adaxially placed palisade parenchyma is made up of elongated cells, which are arranged vertically and parallel to each other.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution

Q.135 Which of the following are not fatty acids?

- A. Glutamic acid B. Arachidonic acid
C. Palmitic acid D. Lecithin
E. Aspartic acid

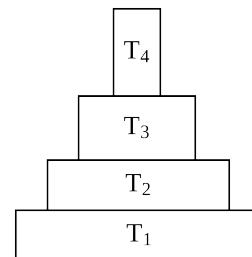
Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution

Q.136 Consider the pyramid of energy of an ecosystem given below:



If T_4 is equivalent to 1000 J, what is the value at T_1 ?

[RE-NEET (UG) 2024]

- (1) $\frac{10000}{10}$ J (2) $\frac{10000}{10} \times 4$ J
(3) 10,000 J (4) 10,00,000 J

Scan or tap for the full solution



Q.137 Which one of the following products diffuses out of the chloroplast during photosynthesis?

[RE-NEET (UG) 2024]

- (1) ADP (2) NADPH (3) O_2 (4) ATP

Scan or tap for the full solution



Q.138 Which one of the following is not a limitation of ecological pyramids?

[RE-NEET (UG) 2024]

- (1) Saprophytes are not given any place in ecological pyramids
(2) It assumes a simple food chain, that almost never exists in nature
(3) It accommodates a food web
(4) It does not take into account the same species belonging to two or more trophic levels

Scan or tap for the full solution



Q.139 Match List-I with List-II:

List - I Organisms		List - II Mode of Nutrition	
A.	Euglenoid	I.	Parasitic
B.	Dinoflagellate	II.	Saprophytic
C.	Slime mould	III.	Photosynthetic
D.	<i>Plasmodium</i>	IV.	Switching between photosynthetic and heterotrophic mode

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

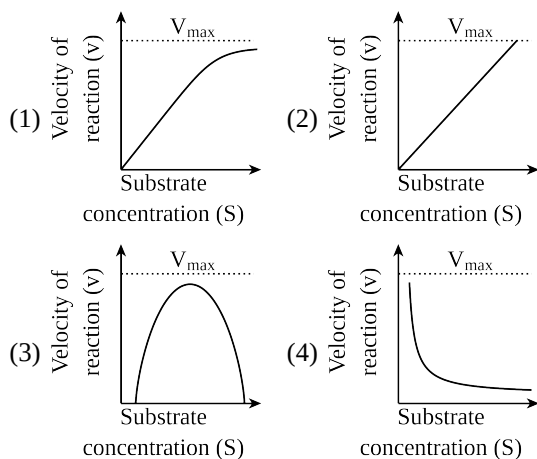
- (1) A-III, B-IV, C-II, D-I (2) A-IV, B-II, C-I, D-III
(3) A-IV, B-III, C-II, D-I (4) A-IV, B-II, C-III, D-I

Scan or tap for the full solution



Q.140 Which of the following graphs depicts the effect of substrate concentration on velocity of enzyme catalysed reaction?

[RE-NEET (UG) 2024]



Scan or tap for the full solution

Q.141 When will the population density increase, under special conditions? When the number of :

[RE-NEET (UG) 2024]

- (1) Deaths exceeds number of births and also number of emigrants equals number of immigrants.
- (2) Births plus number of immigrants equals number of deaths plus number of emigrants.
- (3) Births plus number of emigrants is more than the number of deaths plus number of immigrants.
- (4) Births plus number of immigrants is more than the sum of number of deaths and number of emigrants.

Scan or tap for the full solution

Q.142 When a tall pea plant with round seeds was selfed, it produced the progeny of :

- (a) Tall plants with round seeds and
- (b) Tall plants with wrinkled seeds.

Identify the genotype of the parent plant.

[RE-NEET (UG) 2024]

- (1) TtRr (2) TtRR (3) TTRR (4) TTRr

Scan or tap for the full solution

Q.143 Match List-I with List-II:

List - I		List - II	
A.	Biodiversity hotspot	I.	Khasi and Jaintia hills in Meghalaya
B.	Sacred groves	II.	World Summit on Sustainable Development 2002
C.	Johannesburg, South Africa	III.	<i>Parthenium</i>
D.	Alien species invasion	IV.	Western Ghats

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

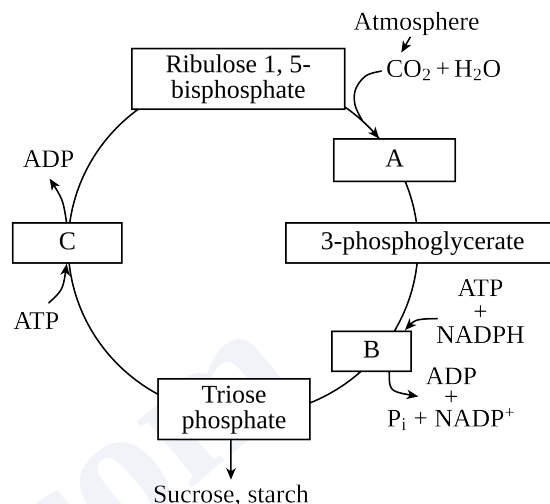
- (1) A-IV, B-I, C-II, D-III (2) A-II, B-III, C-IV, D-I
- (3) A-I, B-IV, C-III, D-II (4) A-III, B-I, C-II, D-IV

Scan or tap for the full solution



Q.144 Observe the given figure. Identify the different stages labelled with alphabets by selecting the correct option.

[RE-NEET (UG) 2024]



- (1) A-Carboxylation, B-Regeneration, C-Reduction
- (2) A-Reduction, B-Decarboxylation, C-Regeneration
- (3) A-Carboxylation, B-Reduction, C-Regeneration
- (4) A-Reduction, B-Carboxylation, C-Regeneration

Scan or tap for the full solution



Q.145 Match List-I with List-II:

List - I		List - II	
A.	Predator	I.	<i>Ophrys</i>
B.	Mutualism	II.	<i>Pisaster</i>
C.	Parasitism	III.	Female wasp and fig
D.	Sexual deceit	IV.	<i>Plasmodium</i>

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.146 Enzymes that catalyse the removal of groups from substrates by mechanisms other than hydrolysis leaving double bonds, are known as :

[RE-NEET (UG) 2024]

- (1) Transferases (2) Oxidoreductases
- (3) Dehydrogenases (4) Lyases

Scan or tap for the full solution



Q.147 Match List-I with List-II.

List - I Event		List - II Stage of Prophase-I (Meiosis-I)	
A.	Chiasmata formation	I.	Pachytene
B.	Crossing over	II.	Diakinesis
C.	Synaptonemal complex formation	III.	Diplotene
D.	Terminalisation of chiasmata	IV.	Zygotene

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.148 Match List-I with List-II.

List - I		List - II	
A.	Primary structure of protein	I.	Human haemoglobin
B.	Secondary structure of protein	II.	Disulphide bonds
C.	Tertiary structure of protein	III.	Polypeptide chain
D.	Quaternary structure of protein	IV.	Alpha helix and β sheet

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.149 Match List-I with List-II.

List-I		List-II	
A.	Cells are metabolically active and proliferate	I.	G ₂ phase
B.	DNA replication takes place	II.	G ₁ phase
C.	Proteins are synthesised	III.	G ₀ phase
D.	Quiescent stage with metabolically active cells	IV.	S phase

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.150 Match List-I with List-II.

List-I		List-II	
A.	Migratory flamingoes and resident fish in South American lakes	I.	Interference competition
B.	Abingdon tortoise became extinct after introduction of goats in their habitat	II.	Competitive release
C.	<i>Chthamalus</i> expands its distributional range in the absence of <i>Balanus</i>	III.	Resource Partitioning
D.	Five closely related species of Warblers feeding in different locations on same tree	IV.	Interspecific competition

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.151 Match List-I with List-II relating to microbes and their products:

List-I (Microbes)		List-II (Products)	
A.	<i>Streptococcus</i>	I.	Citric acid
B.	<i>Trichoderma polysporum</i>	II.	Clot buster
C.	<i>Monascus purpureus</i>	III.	Cyclosporin A
D.	<i>Aspergillus niger</i>	IV.	Statins

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.152 Match List-I with List-II.

List-I		List-II	
A.	F ₁ Particles	I.	Chromosomes
B.	Histones	II.	Cilia
C.	Axoneme	III.	Golgi apparatus
D.	Cisternae	IV.	Mitochondria

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.153 Aneuploidy is a chromosomal disorder where chromosome number is not the exact copy of its haploid set of chromosomes, due to :

- A. Substitution B. Addition
C. Deletion D. Translocation
E. Inversion

Choose the most appropriate answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.154 Given below are two statements :

Statement-I: Concentrically arranged cisternae of Golgi complex are arranged near the nucleus with distinct convex cis or maturing and concave trans or forming face.

Statement-II: A number of proteins are modified in the cisternae of Golgi complex before they are released from cis face.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.155 The mother has A + blood group, the father has B + and the child is A + . What can be the possibility of genotypes of all three, respectively?

- A. $I^A I^A$ | I^{B_i} | I^{B_i} B. $I^A I^A$ | I^{B_i} | I^{A_i}
C. I^{B_i} | $I^A I^A$ | $I^A I^B$ D. $I^A I^A$ | $I^{B_i B}$ | I^{A_i}
E. I^{A_i} | I^{B_i} | I^{A_i}

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

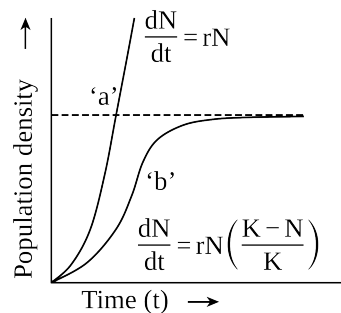
- (1) C and D (2) D and A (3) A and B (4) B and E

Scan or tap for the full solution



Q.156 What do 'a' and 'b' represent in the following population growth curve?

[RE-NEET (UG) 2024]



- (1) 'a' represents exponential growth when resources are not limiting the growth; and 'b' represents logistic growth when resources are limiting the growth.
(2) 'a' represents logistic growth when resources are not limiting the growth; 'b' represents exponential growth when resources are limiting the growth.
(3) 'a' represents carrying capacity and 'b' shows logistic growth when resources are limiting the growth.
(4) 'a' represents exponential growth when resources are not limiting the growth and 'b' shows carrying capacity.

Scan or tap for the full solution



Q.157 In a chromosome, there is a specific DNA sequence, responsible for initiating replication. It is called as:

[RE-NEET (UG) 2024]

- (1) Recognition sequence
(2) Cloning site
(3) Restriction site
(4) ori site

Scan or tap for the full solution



Q.158 Given below are two statements:

Statement-I: The Indian Government has set up GEAC, which will make decisions regarding the validity of GM research.

Statement-II: Biopiracy is the term used to refer to the use of bio-resources by native people.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.159 Match List-I with List-II : [RE-NEET (UG) 2024]

List-I		List-II	
A.	Genetically engineered Human Insulin	I.	Gene therapy
B.	GM Cotton	II.	<i>E. coli</i>
C.	ADA Deficiency	III.	Antigen-antibody interaction
D.	ELISA	IV.	<i>Bacillus thuringiensis</i>

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

Scan or tap for the full solution



Q.160 Identify the incorrect statement related to gel electrophoresis. [RE-NEET (UG) 2024]

- (1) Separated DNA fragments can be directly seen under UV radiation
(2) Separated DNA can be extracted from gel piece
(3) Fragment of DNA moves toward anode
(4) Sieving effect of agarose gel helps in separation of DNA fragments

Scan or tap for the full solution



Q.161 Recombinant DNA molecule can be created normally by cutting the vector DNA and source DNA respectively with: [RE-NEET (UG) 2024]

- (1) Hind II, Hind II (2) Hind II, Alu I
(3) Hind II, EcoR I (4) Hind II, BamHI

Scan or tap for the full solution



Q.162 The Bt toxin in genetically engineered Bt cotton kills the pest by: [RE-NEET (UG) 2024]

- (1) Creating pores in the midgut
(2) Damaging the respiratory system
(3) Degenerating the nervous system
(4) Altering the pH of body fluids

Scan or tap for the full solution



Q.163 Match List-I with List-II:

List - I Location of Joint		List - II Type of Joint	
A.	Joint between humerus and pectoral girdle	I.	Gliding joint
B.	Knee joint	II.	Ball and Socket joint
C.	Joint between atlas and axis	III.	Hinge joint
D.	Joint between carpals	IV.	Pivot joint

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.164 Following are the steps involved in action of toxin in Bt. Cotton

- A. The inactive toxin converted into active form due to alkaline pH of gut of insect.
B. *Bacillus thuringiensis* produces crystals with toxic insecticidal proteins.
C. The alkaline pH solubilises the crystals.
D. The activated toxin binds to the surface of midgut cells, creates pores and causes death of the insect.
E. The toxin proteins exist as inactive protoxins in bacteria.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.165 Match List-I with List-II :

List - I		List - II	
A.	Gene pool	I.	Stable within a generation
B.	Genetic drift	II.	Change in gene frequency by chance
C.	Gene flow	III.	Transfer of genes into or out of population
D.	Gene frequency	IV.	Total number of genes and their alleles

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.166 Which evolutionary phenomenon is depicted by the sketch given in figure? [RE-NEET (UG) 2024]



- (1) Artificial selection (2) Genetic drift
(3) Convergent evolution (4) Adaptive radiation

Scan or tap for the full solution



Q.167 A person with blood group ARh^- can receive the blood transfusion from which of the following types?

- A. BRh^- B. $ABRh^-$
 C. ORh^- D. ARh^-
 E. ARh^+

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.168 Match **List-I** with **List-II**.

List - I		List - II	
A.	Epinephrine	I.	Hyperglycemia
B.	Thyroxine	II.	Smooth muscle contraction
C.	Oxytocin	III.	Basal metabolic rate
D.	Glucagon	IV.	Emergency hormone

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.169 Which of the following statements is correct about the type of junction and their role in our body?

[RE-NEET (UG) 2024]

- (1) Adhering junctions facilitate the cells to communicate with each other.
 (2) Tight junctions help to stop substances from leaking across a tissue.
 (3) Tight junctions help to perform cementing to keep neighbouring cells together.
 (4) Gap junctions help to create gap between the cells and tissues.

Scan or tap for the full solution



Q.170 Select the restriction endonuclease enzymes whose restriction sites are present for the tetracycline resistance (tet^R) gene in the pBR322 cloning vector.

[RE-NEET (UG) 2024]

- (1) Bam HI and Sal I (2) Sal I and Pst I
 (3) Pst I and Pvu I (4) Pvu I and Bam HI

Scan or tap for the full solution



Q.171 Match **List-I** with **List-II**.

List-I		List-II	
A.	Chondrichthyes	I.	<i>Clarias</i>

List-I		List-II	
B.	Cyclostomata	II.	<i>Carcharodon</i>
C.	Osteichthyes	III.	<i>Myxine</i>
D.	Amphibia	IV.	<i>Ichthyophis</i>

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.172 Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A): During menstrual cycle, the ovulation takes place approximately on 14th day.

Reason (R): Rapid secretion of LH in the middle of menstrual cycle induces rupture of Graafian follicle and thereby the release of ovum.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.173 Match **List-I** with **List-II** with respect to convergent evolution:

List-I		List-II	
A.	Lemur	I.	Flying phalanger
B.	Bobcat	II.	Numbat
C.	Anteater	III.	Spotted cuscus
D.	Flying squirrels	IV.	Tasmanian tiger cat

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.174 Match **List-I** with **List-II** relating to examples of various kind of IUDs and barrier:

List-I		List-II	
A.	Copper releasing IUD	I.	Vaults
B.	Non-medicated IUD	II.	Multiload 375
C.	Contraceptive barrier	III.	LNG-20

List-I		List-II	
D.	Hormone releasing IUD	IV.	Lippes loop

Choose the correct answer from the options given below: [RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.175 Given below are two statements:

Statement-I: Antibiotics are chemicals produced by microbes that kill other microbes.

Statement-II: Antibodies are chemicals formed in body that eliminate microbes.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.176 Arrange the following parts in human Mammary gland, traversing the route of milk ejection.

- A. Mammary duct B. Lactiferous duct
C. Mammary alveolus D. Ampulla
E. Mammary tubule

Choose the correct answer from the options given below: [RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.177 Which of the following are correct about EcoRI?

- A. Cut the DNA with blunt end
B. Cut the DNA with sticky end
C. Recognise a specific palindromic sequence
D. Cut the DNA between the base G and A when encounters the DNA sequence 'GAATTC'
E. Exonuclease

Choose the correct answer from the options given below: [RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.178 Which of the following is/are present in female cockroach?

- A. Collateral gland B. Mushroom gland
C. Spermatheca D. Anal style
E. Phallic gland

Choose the most appropriate answer from the options given below: [RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.179 Match List-I with List-II:

List-I		List-II	
A.	Malignant tumors	I.	Destroy tumors
B.	MALT	II.	AIDS
C.	NACO	III.	Metastasis
D.	α-Interferons	IV.	Lymphoid tissue

Choose the correct answer from the options given below: [RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.180 Open Circulatory system is present in :

[RE-NEET (UG) 2024]

- (1) *Palaemon*, *Nereis*, *Balanoglossus*
(2) *Hirudinaria*, *Bombyx*, *Salpa*
(3) *Anopheles*, *Limax*, *Limulus*
(4) *Pheretima*, *Musca*, *Pila*

Scan or tap for the full solution



Q.181 In which of the following connective tissues, the cells secrete fibres of collagen or elastin?

- A. Cartilage B. Bone
C. Adipose tissue D. Blood
E. Areolar tissue

Choose the most appropriate answer from the options given below : [RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.182 Which of the following pairs is an incorrect match?

[RE-NEET (UG) 2024]

- (1) Annelids and arthropods-Bilateral symmetry
- (2) Sponges-Acoelomates
- (3) Coelenterates and Ctenophores-Radial symmetry
- (4) Platyhelminthes-Diploblastic organisation

Scan or tap for the full solution



Q.183 Match **List-I** with **List-II**:

List-I		List-II	
A.	Residual Volume	I.	Maximum volume of air that can be breathed in after forced expiration
B.	Vital Capacity	II.	Volume of air inspired or expired during normal respiration
C.	Expiratory Capacity	III.	Volume of air remaining in lungs after forcible expiration
D.	Tidal Volume	IV.	Total volume of air expired after normal inspiration

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.184 Match **List I** with **List II**:

List-I		List-II	
A.	Living Fossil	I.	Elongated canine teeth
B.	Connecting Link	II.	Vermiform appendix
C.	Vestigial Organ	III.	Echidna
D.	Atavism	IV.	<i>Latimeria</i>

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.185 Match **List-I** with **List-II**

List - I		List - II	
A.	Schwann cells	I.	Neurotransmitter
B.	Synaptic knob	II.	Cerebral cortex
C.	Bipolar neurons	III.	Myelin sheath
D.	Multipolar neurons	IV.	Retina

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.186 Diuresis is prevented by:

[RE-NEET (UG) 2024]

- (1) Renin from JG cell via switching off the osmoreceptors
- (2) ANF from atria of the heart
- (3) Aldosterone from adrenal medulla
- (4) Vasopressin from Neurohypophysis

Scan or tap for the full solution



Q.187 Following is the list of STDs. Select the diseases which are not completely curable.

- A. Genital warts
- B. Genital herpes
- C. Syphilis
- D. Hepatitis-B
- E. Trichomoniasis

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.188 What is the correct order (old to recent) of periods in Paleozoic era?

[RE-NEET (UG) 2024]

- (1) Silurian, Devonian, Permian, Carboniferous
- (2) Silurian, Devonian, Carboniferous, Permian
- (3) Permian, Devonian, Silurian, Carboniferous
- (4) Silurian, Carboniferous, Permian, Devonian

Scan or tap for the full solution



Q.189 'Lub' sound of Heart is caused by the _____.

[RE-NEET (UG) 2024]

- (1) closure of the semilunar valves
- (2) opening of tricuspid and bicuspid valves
- (3) opening of the semilunar valves
- (4) closure of the tricuspid and bicuspid valves

Scan or tap for the full solution



Q.190 Match **List-I** with **List-II** relating to human female external genitalia.

List - I		List - II	
A.	Mons pubis	I.	A fleshy fold of tissue surrounding the vaginal opening
B.	Clitoris	II.	Fatty cushion of cells covered by skin and hair
C.	Hymen	III.	Tiny finger-like structure above labia minora
D.	Labia majora	IV.	A thin membrane-like structure covering vaginal opening

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.191 Given below are two statements :

Statement-I: RNA interference takes place in all Eukaryotic organisms as method of cellular defense.

Statement-II: RNAi involves the silencing of a specific mRNA due to a complementary single-stranded RNA molecule that binds and prevents translation of mRNA

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.192 Identify the wrong statements :

- A. Erythropoietin is produced by juxtaglomerular cells of the kidney
B. Leydig cells produce Androgens
C. Atrial Natriuretic factor, a peptide hormone is secreted by the seminiferous tubules of the testes
D. Cholecystokinin is produced by gastrointestinal tract
E. Gastrin acts on intestinal wall and helps in the production of pepsinogen

Choose the most appropriate answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.193 Following are the steps involved in the process of PCR.

- A. Annealing
B. Amplification (~1 billion times)
C. Denaturation
D. Treatment with Taq polymerase and deoxynucleotides
E. Extension

Choose the correct sequence of steps of PCR from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.194 Given below are two statements:

Statement-I: Concentrated urine is formed due to counter current mechanism in nephron.

Statement-II: Counter current mechanism helps to maintain osmotic gradient in the medullary interstitium.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.195 Match List-I with List-II:

List - I		List - II	
A.	Parturition	I.	Several antibodies for new-born babies
B.	Placenta	II.	Collection of ovum after ovulation
C.	Colostrum	III.	Foetal ejection reflex
D.	Fimbriae	IV.	Secretion of the hormone hCG

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.196 Given below are two statements: One is labelled as **Assertion A** and the other is labelled as **Reason R**.

Assertion (A): Members of subphylum vertebrata possess notochord during the embryonic period. The notochord is replaced by a cartilaginous or bony vertebral column in the adult.

Reason (R): Thus all chordates are vertebrates not all vertebrates are chordates.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution 

Q.197 Select the correct statements regarding mechanism of muscle contraction.

Choose the most appropriate answer from the options given below:

- A. It is initiated by a signal sent by CNS via sensory neuron.
 B. Neurotransmitter generates action potential in the sarcolemma.
 C. Increased Ca^{++} level leads to the binding of calcium with troponin on actin filaments.
 D. Masking of active site for actin is activated.
 E. Utilising the energy from ATP hydrolysis to form cross bridge.

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution 

Q.198 Match List I with List II :

List - I		List - II	
A.	Squamous Epithelium	I.	Goblet cells of alimentary canal
B.	Ciliated Epithelium	II.	Inner lining of pancreatic ducts
C.	Glandular Epithelium	III.	Walls of blood vessels
D.	Compound Epithelium	IV.	Inner surface of Fallopian tubes

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.199 Match List I with List II :

List - I		List - II	
A.	B-Lymphocytes	I.	Passive immunity
B.	Interferons	II.	Cell mediated immunity
C.	T-Lymphocytes	III.	Produce an army of proteins in response to pathogens
D.	Colostrum	IV.	Innate immunity

Choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



Q.200 Given below are two statements: One is labelled as **Assertion A** and the other is labelled as **Reason R**.

Assertion (A): During the transportation of gases, about 20-25 percent of CO_2 is carried by Haemoglobin as carbamino-haemoglobin.

Reason (R): This binding is related to high pCO_2 and low pO_2 in tissues.

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

[RE-NEET (UG) 2024]

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

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7
Ans.	2	1	4	4	3	3	1
Ques.	8	9	10	11	12	13	14
Ans.	3	4	4	1	2	2	1
Ques.	15	16	17	18	19	20	21
Ans.	4	4	4	3	2	3	1
Ques.	22	23	24	25	26	27	28
Ans.	2	2	3	4	2	2	1
Ques.	29	30	31	32	33	34	35
Ans.	2	3	3	2	4	4	4
Ques.	36	37	38	39	40	41	42
Ans.	3	4	4	1	3	4	1

Ques.	43	44	45	46	47	48	49
Ans.	1	1	1	4	2	3	3
Ques.	50	51	52	53	54	55	56
Ans.	2	3	2	3	2	3	3
Ques.	57	58	59	60	61	62	63
Ans.	3	4	2	4	4	1	2
Ques.	64	65	66	67	68	69	70
Ans.	3	1	1	2	2	1	1
Ques.	71	72	73	74	75	76	77
Ans.	1	4	3	3	1	2	2
Ques.	78	79	80	81	82	83	84
Ans.	1	1	1	3	4	2	4
Ques.	85	86	87	88	89	90	91
Ans.	3	1	2	4	4	1	1
Ques.	92	93	94	95	96	97	98
Ans.	1	2	1	2	1	3	4
Ques.	99	100	101	102	103	104	105
Ans.	4	3	3	1	2	2	1
Ques.	106	107	108	109	110	111	112
Ans.	2	1	4	2	3	1	1
Ques.	113	114	115	116	117	118	119
Ans.	1	2	1	3	4	3	3
Ques.	120	121	122	123	124	125	126
Ans.	2	3	1	3	4	4	4
Ques.	127	128	129	130	131	132	133
Ans.	4	1	3	1	4	1	2
Ques.	134	135	136	137	138	139	140
Ans.	2	3	4	3	3	3	1
Ques.	141	142	143	144	145	146	147
Ans.	4	4	1	3	4	4	1
Ques.	148	149	150	151	152	153	154
Ans.	1	4	2	1	2	4	4
Ques.	155	156	157	158	159	160	161
Ans.	4	1	4	1	4	1	1
Ques.	162	163	164	165	166	167	168
Ans.	1	1	4	2	4	4	3
Ques.	169	170	171	172	173	174	175
Ans.	2	1	3	3	1	4	3
Ques.	176	177	178	179	180	181	182
Ans.	3	4	4	1	3	2	4
Ques.	183	184	185	186	187	188	189
Ans.	3	1	1	4	2	2	4
Ques.	190	191	192	193	194	195	196
Ans.	1	1	3	1	3	1	1
Ques.	197	198	199	200			
Ans.	1	4	3	3			