

NEET TEST PAPER 2025

PHYSICS

A parallel plate capacitor made of circular plates is being charged such that the surface charge density on its plates is increasing at a constant rate with time. The magnetic field arising due to displacement current is:

1. non-zero everywhere with maximum at the imaginary cylindrical surface connecting peripheries of the plates
2. zero between the plates and non-zero outside
3. zero at all places
4. constant between the plates and zero outside the plates

An electric dipole with dipole moment $5 \times 10^{-6} \text{ cm}$ is

aligned with the direction of a uniform electric field of magnitude $4 \times 10^5 \text{ N/C}$. The dipole is then rotated through an angle of 60° with respect to the electric field. The change in the potential energy of the dipole is:

1. 1.2 J
2. 1.5 J
3. 0.8 J
4. 1.0 J

A ball of mass 0.5 kg is dropped from a height of 40 m.

The ball hits the ground and rises to a height of 10 m. The impulse imparted to the ball during its collision with the ground is:

(take $g = 9.8 \text{ m/s}^2$)

1. 0
2. 84 N-s
3. 21 N-s
4. 7 N-s

The intensity of transmitted light when a polaroid sheet,

placed between two crossed polaroids at 22.5° from the polarization axis of one of the polaroids, is (I_0 is the intensity of polarised light after passing through the first polaroid):

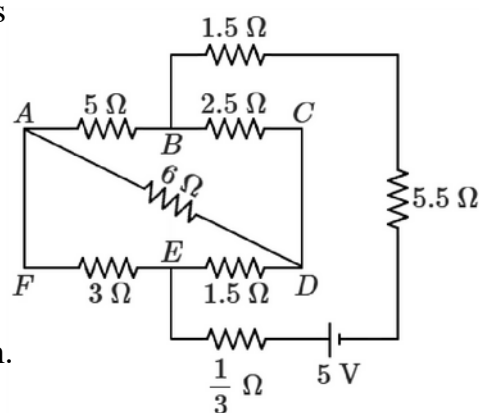
1. $\frac{I_0}{8}$
2. $\frac{I_0}{16}$
3. $\frac{I_0}{2}$
4. $\frac{I_0}{4}$

The kinetic energies of two similar cars A and B are

100 J and 225 J respectively. On applying breaks, car A stops after 1000 m and car B stops after 1500 m. If F_A and F_B are the forces applied by the breaks on cars A and B , respectively, then the ratio F_A/F_B is:

1. $\frac{1}{3}$
2. $\frac{1}{2}$
3. $\frac{3}{2}$
4. $\frac{2}{3}$

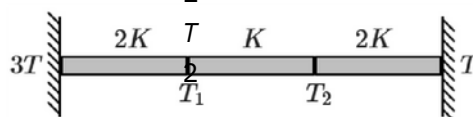
The current passing through the battery in the given circuit, is:



1. 2.5 A
2. 1.5 A
3. 2.0 A
4. 0.5 A

Three identical heat conducting rods are connected

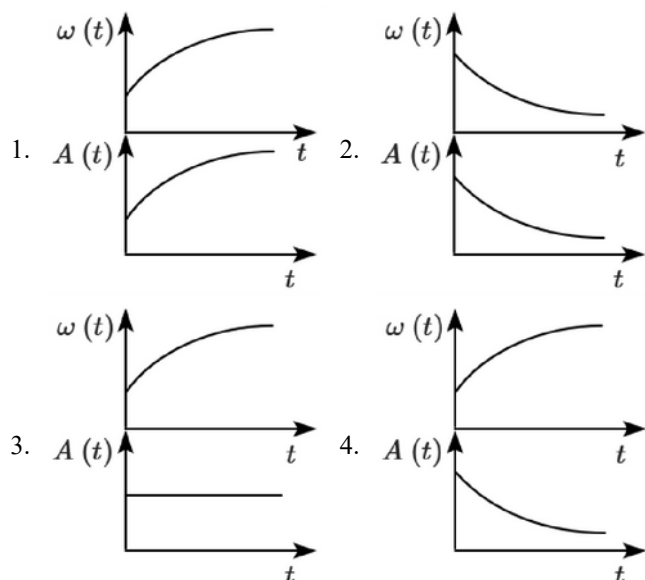
series as shown in the figure. The rods on the sides have thermal conductivity $2K$ while that in the middle has thermal conductivity K . The left end of the combination is maintained at temperature $3T$ and the right end at T . The rods are thermally insulated from outside. In the steady state, temperature at the left junction is T_1 and that at the right junction is T_2 . The ratio $\frac{T_1}{T_2}$ is:



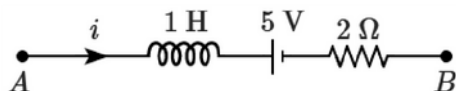
1. $\frac{5}{3}$
2. $\frac{5}{4}$
3. $\frac{3}{2}$
4. $\frac{4}{3}$

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In an oscillating spring mass system, a spring is connected to a box filled with the sand. As the box oscillates, sand leaks slowly out of the box vertically so that the average frequency $\omega(t)$ and average amplitude $A(t)$ of the system changes with time t . Which of the following options systemically depicts these changes correctly?



AB is a part of an electrical circuit (see figure). The potential difference " V_{A-B} ," at the instant when current $i=2$ A and is increasing at a rate of 1 amp/second is:



1. 9 volts
2. 10 volts
3. 5 volts
4. 6 volts

A particle of mass m is moving around the origin with a constant force F pulling it towards the origin. If Bohr model is used to describe its motion, the radius r of the n th orbit and the particle's speed v in the orbit depend on n as:

1. $r \propto n^{2/3}; v \propto n^{1/3}$
2. $r \propto n^{4/3}; v \propto n^{-1/3}$
3. $r \propto n^{1/3}; v \propto n^{1/3}$
4. $r \propto n^{1/3}; v \propto n^{2/3}$

In some appropriate units, time (t) and position (x) relation of a moving particle is given by $t = x^2 + x$. The acceleration of the particle is:

1. $+\frac{2}{(x+1)^3}$
2. $+\frac{2}{(2x+1)}$
3. $-\frac{2}{(x+2)^3}$
4. $-\frac{2}{(2x+1)^3}$

A model for the quantized motion of an electron in a uniform magnetic field B states that the flux passing through the orbit of the electron is $n(h/e)$ where n is an integer, h is

Planck's constant and e is the magnitude of the electron's charge. According to the model, the magnetic moment of an electron in its lowest energy state will be (m is the mass of the electron):

1. $\frac{heB}{\pi m}$
2. $\frac{heB}{2\pi m}$
3. $\frac{he}{\pi m}$
4. $\frac{he}{2\pi m}$

A microscope has an objective of focal length 2 cm, eyepiece of focal length 4 cm and the tube length of 40 cm.

If the distance of distinct vision of eye is 25 cm, the magnification in the microscope is:

1. 150
2. 250
3. 100
4. 125

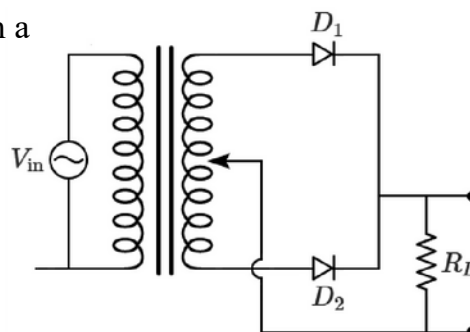
There are two inclined surfaces of equal length (L)

same angle of inclination 45° with the horizontal. One of them is rough and the other is perfectly smooth. A given body takes 2 times as much time to slide down on rough surface than on the smooth surface. The coefficient of kinetic friction (μ_k) between the object and the rough surface is close to:

1. 0.5
2. 0.75
3. 0.25
4. 0.40

A full wave rectifier circuit with diodes (D_1) and (D_2)

is shown in the figure. If input supply voltage $V_{in} = 220 \sin(100\pi t)$ volt, then at $t = 15$ ms:



1. D_1 and D_2 both are forward biased
2. D_1 is forward biased, D_2 both are reverse biased
3. D_1 is reverse biased, D_2 is reverse biased
4. D_1 is reverse biased, D_2 is forward biased

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A uniform rod of mass 20 kg and length 5 m leans against a smooth vertical wall making an angle of 60° with it.

The other end rests on a rough horizontal floor. The friction force that the floor exerts on the rod is: (take $g=10\text{m/s}^2$)

1. 200 N
2. $200\sqrt{3}$ N
3. 100 N
4. $100\sqrt{3}$ N

Two identical charged conducting spheres A and B have

their centres separated by a certain distance. Charge on each sphere is q and the force of repulsion between them is F . A third identical uncharged conducting sphere is brought in contact with sphere A first and then with B and finally removed from both. New force of repulsion between spheres A and B (Radii of A and B are negligible compared to the distance of separation so that for calculating force between them they can be considered as point charges) is best given as: 1.

2. $\frac{2F}{3}$
3. $\frac{3F}{5}$
4. $\frac{2F}{3}$

Two cities X and Y are connected by a regular bus service with a bus leaving in either direction every T min. A girl is driving scooty with a speed of 60 km/h in the direction X to Y notices that a bus goes past her every 30 minutes in the direction of her motion, and every 10 minutes in the opposite direction. Choose the correct option for the period T of the bus service and the speed (assumed constant) of the buses.

1. 10 min, 90 km/h
2. 15 min, 120 km/h
3. 9 min, 40 km/h
4. 25 min, 100 km/h

1. 10 min, 90 km/h
2. 15 min, 120 km/h
3. 9 min, 40 km/h
4. 25 min, 100 km/h

A container has two chambers of volumes $V_1=2$ litres

and $V_2=3$ litres separated by a partition made of a thermal insulator. The chambers contains $n_1=5$ and $n_2=4$ moles of ideal gas at pressures $p_1=1$ atm and $p_2=2$ atm, respectively. When the partition is removed, the mixture attains an equilibrium pressure of:

1. 1.4 atm
2. 1.8 atm
3. 1.3 atm
4. 1.6 atm

De-Broglie wavelength of an electron orbiting in

$n=2$ state of hydrogen atom is close to: (Given: Bohr radius $=0.052$ nm)

1. 1.67 nm
2. 2.67 nm
3. 0.067 nm
4. 0.67 nm

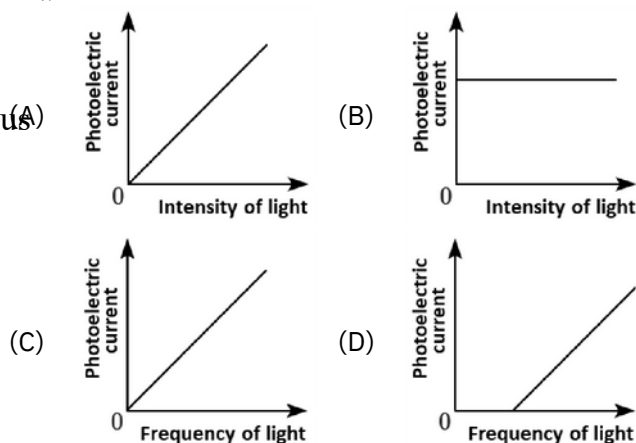
To an AC power supply of 220 V at 50 Hz, a resistor

20 Ω , a capacitor of reactance 25 Ω and an inductor of reactance 45 Ω are connected in series. The corresponding current in the circuit and the phase angle between the current and the voltage is, respectively:

1. 15.6 A and 30°
2. 15.6 A and 45°
3. 7.8 A and 30°
4. 7.8 A and 45°

Which of the following options represents the variation

of photoelectric current with the property of light shown on the x-axis?



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

A pipe open at both ends has a fundamental frequency

in air. The pipe is now dipped vertically in a water drum to half of its length. The fundamental of the air column is now equal to:

1. $\frac{3f}{2}$
2. $2f$
3. $\frac{f}{2}$
4. f

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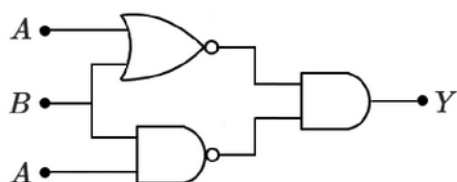
Two identical point masses P and Q , suspended from two gases A and B are filled at the same pressure in two separate massless springs of spring constant k_1 and k_2 , respectively, oscillate vertically. If their maximum speeds are the same, the ratio $\frac{A}{AP}$ of the amplitude AQ of mass Q to the amplitude AP of mass P is:

1. $\frac{k_2 k_1}{k_1 k_2}$
2. $\frac{k_1 k_2}{k_2 k_1}$
3. $\frac{k}{1}$
4. $\frac{k}{2}$

separate cylinders with movable pistons of radius r_A and r_B , respectively. On supplying an equal amount of heat to both the systems reversibly under constant pressure, the pistons of gas A and B are displaced by 16 cm and 9 cm, respectively. If the change in their internal energy is the same, then the ratio r_A/r_B is equal to:

1. $\frac{2}{\sqrt{3}}$
2. $\frac{\sqrt{3}}{2}$
3. $\frac{4}{3}$
4. $\frac{3}{4}$

The output Y of the given logic implementation is similar to the output of which gate?



1. OR
2. NOR
3. AND
4. NAND

An oxygen cylinder of volume 30 litre has 18.20 moles

of oxygen. After some oxygen is withdrawn from the cylinder, its gauge pressure drops to 11 atmospheric pressure at temperature 27°C . The mass of the oxygen withdrawn from the cylinder is nearly equal to:

[Given, $R = \frac{100}{12} \text{ J mol}^{-1} \text{ K}^{-1}$ and molecular mass of $\text{O}_2 = 32$, atm pressure $= 1.01 \times 10^5 \text{ N/m}^2$]

1. 0.116 kg
2. 0.156 kg
3. 0.125 kg
4. 0.144 kg

In a certain camera, a combination of four similar thin

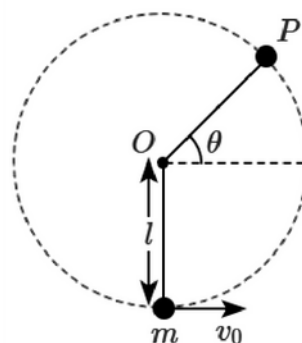
convex lenses are arranged axially in contact. Then the power of the combination and the total magnification in comparison to the power (p) and magnification (m) for each lens will be, respectively -

1. $4p$ and m^4
2. p^4 and m^4
3. $4p$ and $4m$
4. p^4 and $4m$

A balloon is made of a material of surface tension S . Its inflation outlet (from where gas is filled in it) has small area A . It is filled with a gas of density ρ and takes a spherical shape of radius R . When the gas is allowed to flow freely out of it, its radius changes from R to zero in time T . If the speed $v(r)$ of gas coming out of the balloon depends on r as ra and $T \propto S^a A^b \rho^c R^d$ then:

1. $a = -\frac{1}{2}, b = -\frac{1}{2}, c = -1, d = \frac{1}{2}, \delta = \frac{7}{2}$
2. $a = \frac{2}{1}, b = \frac{1}{2}, c = -1, d = \frac{2}{3}, \delta = \frac{2}{3}$
3. $a = \frac{2}{1}, b = \frac{1}{2}, c = -1, d = \frac{2}{3}, \delta = \frac{2}{3}$
4. $a = \frac{1}{2}, b = -\frac{1}{2}, c = -1, d = \frac{5}{2}, \delta = \frac{5}{2}$

A bob of heavy mass is suspended by a light string of length l . The bob is given a horizontal velocity v_0 as shown in figure. If the string gets slack at some point P making an angle θ from the horizontal, the ratio of the speed v of the bob at point P to its initial speed v_0 is:



1. $\left(\frac{2+3\sin\theta}{\cos\theta} \right)^{-1/2}$
2. $\left(\frac{\sin\theta}{2+3\sin\theta} \right)^{1/2}$
3. $\frac{1}{2+3\sin\theta}$
4. $\frac{1}{2+3\sin\theta}^{1/2}$

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A physical quantity P is related to four observations

a, b, c and d as follows:

$$P = \frac{a^3 b^2}{c \sqrt{d}}$$

The percentage errors of measurement in a, b, c and d are 1%, 3%, 2% and 4% respectively. The percentage error in the quantity P is:

1. 13%
2. 15%
3. 10%
4. 2%

The sun rotates around its centre once in 27 days. What

will be the period of revolution if the sun were to expand to twice its present radius without any external influence?

Assume the sun to be a sphere of uniform density.

1. 115 days
2. 108 days
3. 100 days
4. 105 days

The radius of Martian orbit around the sun is about

4 times the radius of the orbit of mercury. The Martian year is 687 earth days. Then which of the following is the length of 1 year on mercury?

1. 172 earth days
2. 124 earth days
3. 88 earth days
4. 225 earth days

A wire of resistance R is cut into 8 equal pieces.

these pieces two equivalent resistance are made by adding four of these together in parallel. Then these two sets are added in series. The net effective resistance of the combination is:

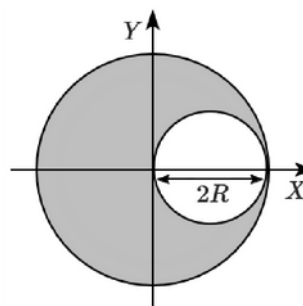
1. $\frac{R}{16}$
2. $\frac{R}{8}$
3. $\frac{R}{4}$
4. $\frac{R}{2}$

A photon and an electron (mass m) have the same energy E . The ratio ($\lambda_{\text{photon}} / \lambda_{\text{electron}}$) of their de Broglie

wavelengths is: (as the speed of light)

1. $\frac{\sqrt{mE}}{c}$
2. $\frac{1}{c} \sqrt{\frac{E}{2m}}$
3. $\frac{\sqrt{E}}{c}$
4. $\frac{1}{c} \sqrt{2mE}$

A sphere of radius R is cut from a larger solid sphere of radius $2R$ as shown in the figure. The ratio of the moment of inertia of the smaller sphere to that of the rest part of the sphere about the Y -axis is:



1. $\frac{7}{57}$
2. $\frac{7}{64}$
3. $\frac{7}{8}$
4. $\frac{7}{40}$

An electron (mass 9×10^{-31} kg and charge 1.6×10^{-19} C) moving with speed $c/100$ (c =speed of light) is injected into a magnetic field $B \rightarrow$ of magnitude 9×10^{-4} T perpendicular to its direction of motion. We wish to apply a uniform electric field $E \rightarrow$ together with the magnetic field so that the electron does not deflect from its path. Then (speed of light $c = 3 \times 10^8$ ms $^{-1}$)

1. $E \rightarrow$ is parallel to $B \rightarrow$ and its magnitude is 27×10^2 V m $^{-1}$
2. $E \rightarrow$ is parallel to $B \rightarrow$ and its magnitude is 27×10^4 V m $^{-1}$
3. $E \rightarrow$ is perpendicular to $B \rightarrow$ and its magnitude is 27×10^4 V m $^{-1}$
4. $E \rightarrow$ is perpendicular to $B \rightarrow$ and its magnitude is 27×10^2 V m $^{-1}$

The electric field in a plane electromagnetic wave

given by $E = 60 \cos(5x + 1.5 \times 10^9 t)$ V/m. Then expression for the corresponding magnetic field is (here subscripts denote the direction of the field):

1. $B = 60 \cos(5x + 1.5 \times 10^9 t)$ T
2. $B = 60 \sin(5x + 1.5 \times 10^9 t)$ T
3. $B = 2 \times 10^{-7} \cos(5x + 1.5 \times 10^9 t)$ T
4. $B = 2 \times 10^{-7} \cos(5x + 1.5 \times 10^9 t)$ T

A body weight 48 N on the surface of the earth. The

gravitational force experienced by the body due to the Earth at a height equal to one-third the radius of the Earth from its surface is:

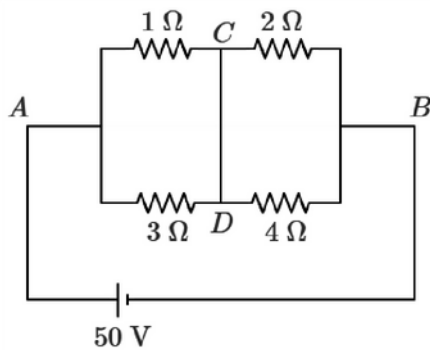
1. 32 N
2. 36 N
3. 16 N
4. 27 N

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An unpolarized light beam travelling in air is incident on a medium of refractive index 1.73 at Brewster's angle. Then:

1. both reflected and transmitted light are perfectly polarized with angles of reflection and refraction close to 60° and 30° , respectively.
2. transmitted light is completely polarized with angle of refraction close to 30°
3. reflected light is completely polarized and the angle of reflection is close to 60°
4. reflected light is partially polarized and the angle of reflection is close to 30°

A constant voltage of 50 V is maintained between the points A and B of the circuit shown in the figure. The current through the branch CD of the circuit is:



1. 2. A
2. 5. A
3. 3. A
4. 0. A

5. The plates of a parallel plate capacitor are separated by

2. Two slabs of different dielectric constant K_1 and K_2 with thickness $\frac{3}{4}d$ and $\frac{d}{4}$, respectively are inserted in the

capacitor. Due to this, the capacitance become two times larger than when there is nothing between the plates.

If $K_1 = 1.25 K_2$, the value of K_1 is:

1. 1.60
2. 1.33
3. 2.66
4. 2.33

6. Consider the diameter of a spherical object being

measured with the help of a Vernier callipers. Suppose its 10 Vernier Scale Divisions (V.S.D.) are equal to its 9 Main Scale Divisions (M.S.D.). The least division in the M.S. is 0.1 cm and the zero of V.S. is at $x = 0.1$ cm when the jaws of Vernier callipers are closed. If the main scale reading for the diameter is $M = 5$ cm and the number of coinciding vernier division is 8, the measured diameter after zero error correction, is:

1. 4.98 cm
2. 5.00 cm
3. 5.18 cm
4. 5.08 cm

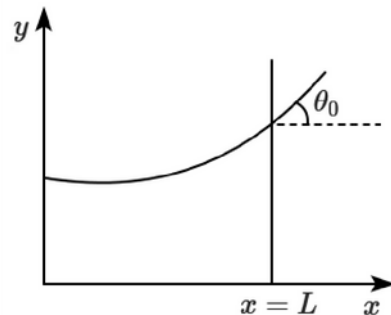
7. A 2 amp current is flowing through two different

circular copper coils having radii ratio 1:2. The ratio of their respective magnetic moments will be:

1. 2:1
2. 4:1
3. 1:4
4. 1:2

8. Consider a water tank shown in the figure. It has

wall at $x = L$ and can be taken to be very wide in the z direction. When filled with a liquid of surface tension S and density ρ , the liquid surface makes angle θ_0 ($\theta_0 \ll 1$) with the x -axis at $x = L$. If $y(x)$ is the height of the surface then the equation for $y(x)$ is:



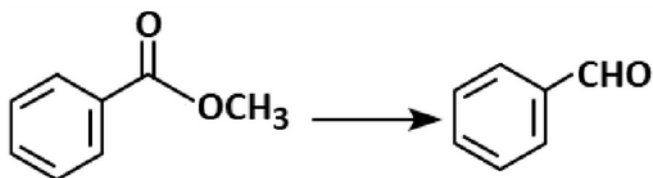
(take $\theta(x) = \sin^{-1} \left(\frac{dy}{dx} \right)$, g is the acceleration due to gravity)

1. $\frac{d^2 y}{dx^2} = \sqrt{\frac{\rho g}{S}}$
2. $\frac{dy}{dx} = \sqrt{\frac{\rho g}{S}} x$
3. $\frac{dx}{2} = \frac{\rho g}{S} x$
4. $\frac{d^2 y}{dx^2} = \frac{\rho g}{S} y$

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CHEMISTRY

Identify the suitable reagent for the following conversion



1. (i) NaBH_4 , (ii) $\text{H}^+/\text{H}_2\text{O}$
2. $\text{H}_2/\text{Pd}-\text{BaSO}_4$
3. (i) LiAlH_4 , (ii) $\text{H}^+/\text{H}_2\text{O}$
4. (i) $\text{AlH}(\text{iBu})_2$, (ii) H_2O

The correct order of decreasing acidity of the following aliphatic acids is:

1. $\text{HCOOH} > \text{CH}_3\text{COOH} > (\text{CH}_3)_2\text{CHCOOH} > (\text{CH}_3)_3\text{CCOOH}$
2. $\text{HCOOH} > (\text{CH}_3)_3\text{CCOOH} > (\text{CH}_3)_2\text{CHCOOH} > \text{CH}_3\text{COOH}$
3. $(\text{CH}_3)_3\text{CCOOH} > (\text{CH}_3)_2\text{CHCOOH} > \text{CH}_3\text{COOH} > \text{HCOOH}$
4. $\text{CH}_3\text{COOH} > (\text{CH}_3)_2\text{CHCOOH} > (\text{CH}_3)_3\text{CCOOH} > \text{HCOOH}$

Which one of the following reactions does not belong to "Lassaigne's test"?

1. $\text{Na} + \text{X} \xrightarrow{\Delta} \text{NaX}$
2. $2\text{CuO} + \text{C} \xrightarrow{\Delta} 2\text{Cu} + \text{CO}_2$
3. $\text{Na} + \text{C} + \text{N} \xrightarrow{\Delta} \text{NaCN}$
4. $2\text{Na} + \text{S} \xrightarrow{\Delta} \text{Na}_2\text{S}$

If the rate constant of a reaction is 0.03s^{-1} how much

time does it take for 7.2mol L^{-1} concentration of the reactant to get reduced to 0.9mol L^{-1} (Given: $\log 2 = 0.301$)

1. 210 s
2. 21.0 s
3. 69.3 s
4. 23.1 s

Given below are two statements:

Statement I: A hypothetical diatomic molecule with bond order zero is quite stable.

Statement II: As bond order increases, the bond length increases.

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

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.

Out of the following complex compounds, which one

compounds will be having the minimum conductance in solution?

1. $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$
2. $[\text{Co}(\text{NH}_3)_5\text{Cl}]\text{Cl}$
3. $[\text{Co}(\text{NH}_3)_3\text{Cl}_3]$
4. $[\text{Co}(\text{NH}_3)_4\text{Cl}_2]$

Which of the following aqueous solution will exhibit

highest boiling point?

1. 0.01M Na_2SO_4
2. 0.015M $\text{C}_6\text{H}_{12}\text{O}_6$
3. 0.01M Urea
4. 0.01M KNO_3

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

Assertion (A):  undergoes S_N2 reaction faster than

.

Reason (R): Iodine is a better leaving group because of its larger size.

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

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)

Consider the following compounds:

$-K-O_2$, H_2-O-2 and H_2S-O_4

The oxidation states of the underlined elements in them are, respectively:

1. +1, -2 and +4
2. +4, -4 and +6
3. +1, -1 and +6
4. +2, -2 and +6

Match List-I with List-II

List-I	List-II
A. Haber process	I. Fe catalyst
B. Wacker oxidation	II. $PdCl_2$
C. Wilkinson catalyst	III. $[PPh_3]_3RhCl$
D. Ziegler catalyst	IV. $TiCl_4$ with $Al(CH_3)_3$

Choose the correct answer from the options given below:

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

Statement I: Like nitrogen that can form ammonia, arsenic can form arsine.

Statement II: Antimony cannot form antimony pentoxide.

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

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

Given below are two statements :

Statement I: Ferromagnetism is considered as an extreme form of paramagnetism.

The number of unpaired electrons in a Cr^{2+}

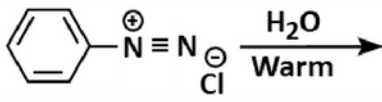
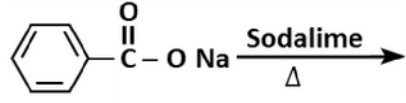
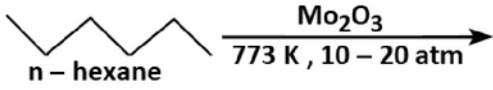
Statement II: ion ($Z=24$) is the same as that of a Nd^{3+} ion ($Z=60$)

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

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.

Which one of the following reactions does not give

benzene as the product?

1. $H-C \equiv C-H \xrightarrow[\text{At } 873 \text{ K}]{\text{Red hot Iron Tube}}$
2. 
3. 
4. 

Match List-I with List-II

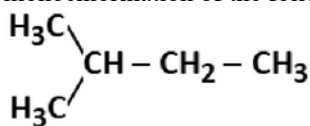
List-I	List-II
A. XeO_3	I. sp d ; linear
B. XeO^2	II. sp^3 ; pyramidal
C. $XeOF_4$	III. sp^3d_2 distorted octahedral
D. XeF_6	IV. sp^3d_2 square pyramidal

Choose the correct answer from the options given below:

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

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How many products (including stereoisomers) are expected from monochlorination of the following compound?



1. 5
2. 6
3. 2
4. 3

Which of the following statements are true?

- A. Unlike Ga that has a very high melting point, Cs has a very low melting point.
- B. On Pauling scale, the electronegativity values of N and Cl are not the same.
- C. $\text{Ar}, \text{K}^+, \text{Cl}^-, \text{Ca}^{2+}$ and S^{2-} are all isoelectronic species.
- D. The correct order of the first ionization enthalpies of Na, Mg, Al, and Si is $\text{Si} > \text{Al} > \text{Mg} > \text{Na}$.
- E. The atomic radius of Cs is greater than that of Li and Rb.

Choose the correct answer from the options given below:

1. C and D only
2. A, C and E only
3. A, B and E only
4. C and E only

The standard heat of formation, in kcal/mol of Ba^{2+} is :

[Given : standard heat of formation of SO_4^{2-} ion (aq) = -216 kcal/mol, standard heat of crystallisation of BaSO_4 = -4.5 kcal/mol, standard heat of formation of BaSO_4 = -349 kcal/mol]

1. +133.0
2. +220.5
3. -120.5
4. -133.0

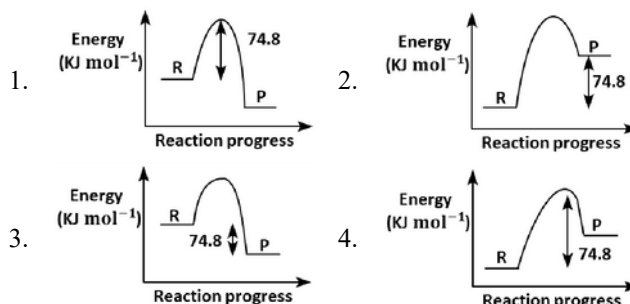
Match List-I with List-II

List-I (Example)	List-II (Type of solution)
A. Humidity	I. Solid in solid
B. Alloys	II. Liquid in gas
C. Amalgams	III. Solid in gas
D. Smoke	IV. Liquid in solid

Choose the correct answer from the options given below:

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

Which of the following diagrams gives an accurate representation of the above reaction?
[R → reactants; P → products]



Sugar 'X'

- A. is found in honey.
 - B. is a keto sugar.
 - C. exists in α and β - anomeric forms.
 - D. is laevorotatory.
- 'X' is :
1. Maltose
 2. Sucrose
 3. D-Glucose
 4. D-Fructose

The total number of possible isomers (both structural

well as stereoisomers) of cyclic ethers of molecular formula $\text{C}_4\text{H}_8\text{O}$ is :

1. 10
2. 6
3. 6
4. 8

For the reaction $\text{A}(\text{g}) \rightleftharpoons 2\text{B}(\text{g})$, the backward reaction

rate constant is higher than the forward reaction rate constant by a factor of 2500, at 1000 K

[Given: $R = 0.0831 \text{ L atm mol}^{-1} \text{ K}^{-1}$]

K_p for the reaction at 1000 K is

1. 0.033
2. 0.021
3. 83.1
4. 2.077×10^5

The ratio of the wavelengths of the light absorbed

Hydrogen atom when it undergoes $n=2 \rightarrow n=3$ and

$n=4 \rightarrow n=6$

transitions, respectively, is

1. $\frac{1}{9}$
2. $\frac{1}{4}$
3. $\frac{1}{36}$
4. $\frac{1}{16}$

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If the molar conductivity (Λ_m) of a 0.050 mol L⁻¹ solution of a monobasic weak acid is 90 S cm² mol⁻¹, its extent (degree) of dissociation will be [Assume $\Lambda_0 = 349.6$ S cm² mol⁻¹ and $\Lambda^\infty = 50.4$ S cm² mol⁻¹.]

- 0.225
- 0.215
- 0.115
- 0.125

5 moles of liquid X and 10 moles of liquid Y make a solution having a vapour pressure of 70 torr. The vapour pressures of pure X and Y are 63 torr and 78 torr respectively. Which of the following is true regarding the described solution?

- The solution is ideal.
- The solution has volume greater than the sum of individual volumes.
- The solution shows positive deviation.
- The solution shows negative deviation.

Among the following, choose the ones with equal number of atoms

- 212 g of Na₂CO₃(s) [molar mass=106 g]
- 248 g of Na₂O(s) [molar mass=62 g]
- 240 g of NaOH(s) [molar mass=40 g]
- 12 g of H₂(g) [molar mass=2 g]
- 220 g of CO₂(g) [molar mass=44 g]

Choose the correct answer from the options given below:

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

Which of the following are paramagnetic?

- [NiCl₄]²⁻
- Ni(CO)₄
- [Ni(CN)₄]²⁻
- [Ni(H₂O)₆]²⁺
- Ni(PPh₃)₄

Choose the correct answer from the options given below:

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

If the half-life ($t_{1/2}$) for a first order reaction is 1 min

, then the time required for 99.9% completion of the reaction is closest to :

- 5 minutes
- 10 minutes
- 2 minutes
- 4 minutes

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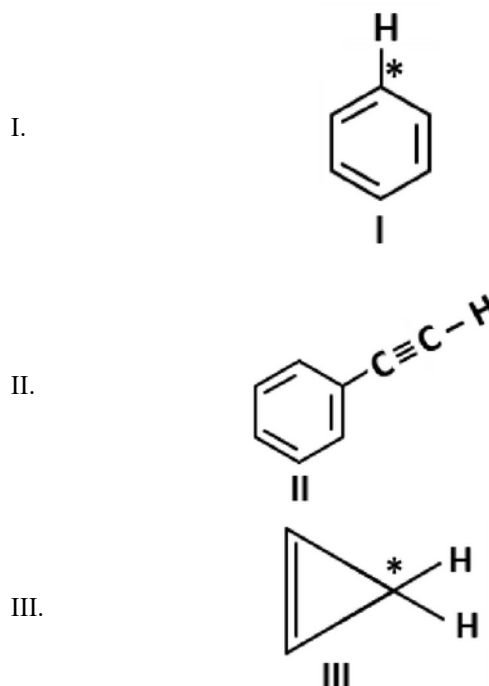
Energy and radius of the first Bohr orbit of Li^{2+} are

[Given $R_H = 2.18 \times 10^{-18} \text{ J}$, $a_0 = 52.9 \text{ pm}$]

$$E_n(\text{Li}^{2+}) = -19.62 \times 10^{-16} \text{ J};$$

- $r_n(\text{Li}^{2+}) = 17.6 \text{ pm}$
 $E_n(\text{He}^+) = 8.72 \times 10^{-16} \text{ J};$
 $r_n(\text{He}^+) = 26.4 \text{ pm}$
 $E_n(\text{Li}^{2+}) = -8.72 \times 10^{-16} \text{ J};$
- $r_n(\text{Li}^{2+}) = 17.6 \text{ pm}$
 $E_n(\text{He}^+) = -19.62 \times 10^{-16} \text{ J};$
 $r_n(\text{He}^+) = 17.6 \text{ pm}$
 $E_n(\text{Li}^{2+}) = -19.62 \times 10^{-18} \text{ J}$
- $r_n(\text{Li}^{2+}) = 17.6 \text{ pm}$
 $E_n(\text{He}^+) = -8.72 \times 10^{-18} \text{ J}$
 $r_n(\text{He}^+) = 26.4 \text{ pm}$
 $E_n(\text{Li}^{2+}) = -8.72 \times 10^{-18} \text{ J}$
- $r_n(\text{Li}^{2+}) = 26.4 \text{ pm}$
 $E_n(\text{He}^+) = -19.62 \times 10^{-18} \text{ J};$
 $r_n(\text{He}^+) = 17.6 \text{ pm}$

Among the given compounds I-III, the correct order of bond dissociation energy of C-H bond marked with * is :



- III > II > I
- II > III > I
- II > I > III
- I > II > III

Dalton's Atomic theory could not explain which of the following?

- Law of multiple proportion
- Law of gaseous volume
- Law of conservation of mass
- Law of constant proportion

Identify the correct orders against the property mentioned

- A.** $\text{H}_2\text{O} > \text{NH}_3 > \text{CHCl}_3$ – dipole moment
- B.** $\text{XeF}_4 > \text{XeO}_3 > \text{XeF}_2$ – number of lone pairs on central atom
- C.** $\text{O-H} > \text{C-H} > \text{N-O}$ – bond length
- D.** $\text{N}_2 > \text{O}_2 > \text{H}_2$ – bond enthalpy

Choose the correct answer from the options given below:

- A and C only
- B and C only
- A and D only
- B and D only

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

List-I
(Name of Vitamin)

- A. Vitamin B12
B. Vitamin D
C. Vitamin B2
D. Vitamin B6

List-II
(Deficiency disease)

- I. Cheilosis
II. Convulsions
III. Rickets
IV. Pernicious anaemia

Choose the correct answer from the options given below:

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

The correct order of decreasing basic strength of the given amines is:

1. N-ethylethanamine > ethanamine > N-methylaniline > benzenamine
2. benzenamine > ethanamine > N-methylaniline > N-ethylethanamine
3. N-methylaniline > benzenamine > ethanamine > N-ethylethanamine
4. N-ethylethanamine > ethanamine > benzenamine > N-methylaniline

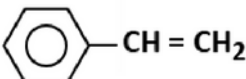
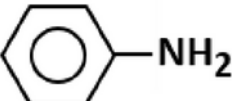
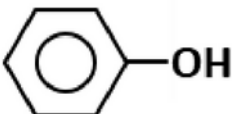
The correct order of the wavelength of light absorbed by the following complexes is.

- A. $[\text{Co}(\text{NH}_3)_6]^{3+}$
B. $[\text{Co}(\text{CN})_6]^{3-}$
C. $[\text{Cu}(\text{H}_2\text{O})_4]^{2+}$
D. $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$

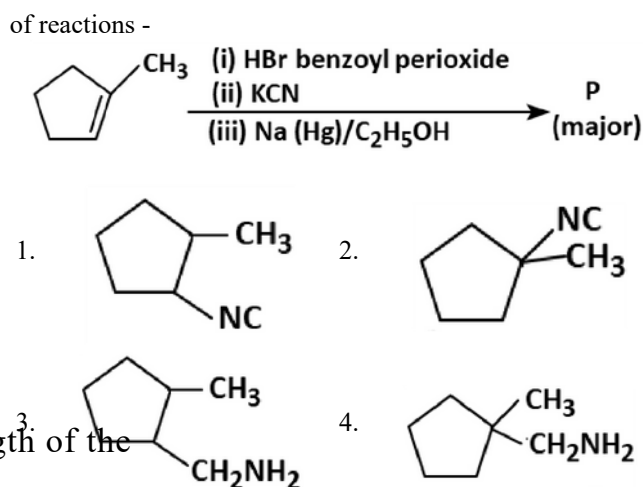
Choose the correct answer from the options given below:

1. $C < D < A < B$
2. $C < A < D < B$
3. $B < D < A < C$
4. $B < A < D < C$

Which one of the following compounds does not decolourize bromine water?

1.  2. 
3.  4. 

Predict the major product of the following sequence of reactions -



Match **List-I** with **List-II**

List-I
(Mixture)

- A. $\text{CHCl}_3 + \text{C}_6\text{H}_5\text{NH}_2$
B. Crude oil in petroleum industry
C. Glycerol from spent-lye
D. Amine-water

List-II
(Method of Separation)

- I. Distillation under reduced pressure
II. Steam distillation
III. Fractional distillation
IV. Simple distillation

Choose the correct answer from the option given below:

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

Which among the following electronic configurations

belong to main group elements?

- A. $[\text{Ne}]3s^1$
B. $[\text{Ar}]3d^8 4s^2$
C. $[\text{Kr}]4d^{10} 5s^2 5p^5$
D. $[\text{Ar}]3d_{10} 4s^1$
E. $[\text{Rn}]5f^6 6d^2 7s^2$

Choose the correct answer from the option given below:

1. D and E only
2. A, C and D only
3. B and E only
4. A and C only

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Which one of the following compounds can exist as trans isomers?

- 1, 1-Dimethylcyclopropane
- 1, 2-Dimethylcyclohexane
- Pent-1-ene
- 2-Methylhex-2-ene

Phosphoric acid ionizes in three steps, with their ionization constant values K_{a1} , K_{a2} and K_{a3} , respectively, while K is the overall ionization constant. Which of the following statements are true?

- $\log K = \log K_{a1} + \log K_{a2} + \log K_{a3}$
- H_3PO_4 is a stronger acid than HPO_4^{2-} and HPO_4^{2-} .
- $K_{a1} > K_{a2} > K_{a3}$
- $a_1 = \frac{K_{a3} + K_{a2}}{2}$

Choose the correct answer from the options given below :

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

Match List-I with List-II

List-I (Ion)	List-II (Group Number in Cation Analysis)
A. Co^{2+}	I. Group-I
B. Mg^{2+}	II. Group-II
C. Pb^{2+}	III. Group-III
D. Al^{3+}	IV. Group-IV

Choose the correct answer from the options given below:

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

Higher yield of NO in $N_2(g) + O_2(g) \rightleftharpoons 2NO(g)$ can

be obtained at

$[\Delta H \text{ of the reaction} = +180.7 \text{ kJ mol}^{-1}]$

- higher temperature
- lower temperature
- higher concentration of N_2
- higher concentration of O_2

Choose the correct answer from the options given below:

- B, C, D only
- A, C, D only
- A, D only
- B, C only

Given below are two statements:

Benzenediazonium salt is prepared by the

Statement I: reaction of aniline with nitrous acid at 273–278 K. It decomposes easily in the dry state

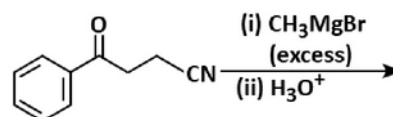
Insertion of iodine into the benzene ring is

Statement II: difficult and hence iodobenzene is prepared through the reaction of benzenediazonium salt with KI.

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

- Statement I is correct; Statement II is incorrect
- Statement I is incorrect; Statement II is correct
- Both Statement I and Statement II are correct
- Both Statement I and Statement II are incorrect

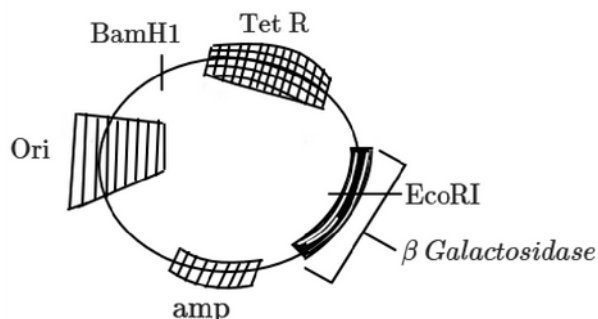
The major product of the following reaction is:



-
-
-
-

NEET TEST PAPER 2025

BIOLOGY



In the above represented plasmid an alien piece of DNA is inserted at EcoRI site. Which of the following strategies will be chosen to select the recombinant colonies?

1. White color colonies will be selected.
2. Blue color colonies grown on ampicillin plates can be selected.
3. Using ampicillin & tetracyclin containing medium plate.
4. Blue color colonies will be selected.

The protein portion of an enzyme is called:

1. Apoenzyme
2. Prosthetic group
3. Cofactor
4. Coenzyme

Given below are two statements:

Statement I: The primary source of energy in an ecosystem is solar energy.

The rate of production of organic matter

Statement II: photosynthesis in an ecosystem is called net primary productivity (NPP).

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

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

Given below are two statements: One is labelled

Assertion (A) and the other is labelled as Reason (R).

Assertion (A): A typical unfertilised, angiosperm embryo sac at maturity is 8-nucleate and 7-celled.

Reason (R): The egg apparatus has 2 polar nuclei.

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

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)

Neoplastic characteristics of cells refer to:

- A. A mass of proliferating cell
- B. Rapid growth of cells
- C. Invasion and damage to the surrounding tissue
- D. Those confined to original location

Choose the correct answer from the options given below.

1. A, B, D only
2. B, C, D only
3. A, B only
4. A, B, C only

Which one of the following is the characteristic feature of gymnosperms?

1. Seeds are absent.
2. Gymnosperms have flowers for reproduction.
3. Seeds are enclosed in fruits.
4. Seeds are naked.

Match List-I with List-II.

List-I	List-II
A. Progesterone	I. Pars intermedia
B. Relaxin	II. Ovary
C. Melanocyte stimulating hormone	III. Adrenal Medulla
D. Catecholamines	IV. Corpus luteum

Choose the correct answer from the options given below.

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

Which chromosome in the human genome has the highest number of genes?

1. Chromosome 1
2. Chromosome 10
3. Chromosome X
4. Chromosome Y

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Which of the following statements about RuBisCO is true?

Match List-I with List-II:

1. It is an enzyme involved in the photolysis of water.
2. It catalyzes the carboxylation of RuBP,
3. It is active only in the dark.
4. It has higher affinity for oxygen than carbon dioxide.

The first menstruation is called:

1. Diapause
2. Ovulation
3. Menopause
4. Menarche

Which of the following genetically engineered organisms was used by Eli Lilly to prepare human insulin?

1. Virus
2. Phage
3. Bacterium
4. Yeast

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

Assertion (A): All vertebrates are chordates but all chordates are not vertebrate.

The members of subphylum vertebrata possess notochord during the embryonic period, the notochord is replaced by a cartilaginous or bony vertebral column in adults.

Reason (R):

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

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)

What is the main function of the spindle fibers during mitosis?

1. To repair damaged DNA
2. To regulate cell growth
3. To separate the chromosomes
4. To synthesize new DNA

List-I

A. Alfred Hershey and Martha Chase

B. Euchromation

C. Frederick Griffith

D. Heterochromatin

List-II

I. Streptococcus

II. Densely packed and dark-stained

III. Loosely packed and light-stained

IV. DNA as genetic material confirmation

Choose the correct answer from the options given below:

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

Match List-I with List-II:

List-I

A. Adenosine

B. Adenylic acid

C. Adenine

D. Alanine

List-II

I. Nitrogen base

II. Nucleotide

III. Nucleoside

IV. Amino acid

Choose the option with all correct matches.

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

In frog, the Renal portal system is a special venous

connection that acts to link:

1. Kidney and intestine
2. Kidney and lower part of body
3. Liver and intestine
4. Liver and kidney

Which of the following are the post-transcriptional events in an eukaryotic cell?

A. Transport of pre-mRNA to the cytoplasm prior to

B. Removal of introns and joining of exons.

C. Addition of methyl group at 5' end of hnRNA.

D. Addition of adenine residues at 3' end of hnRNA.

E. Base pairing of two complementary RNAs.

Choose the correct answer from the options given below:

1. B, C, E only
2. C, D, E only
3. A, B, C only
4. B, C, D only

NEET TEST PAPER 2025

Polymerase chain reaction (PCR) amplifies DNA. Identify the part of a bio-reactor which is used following the equation.

1. $2n+1$
2. $2N2$
3. $N2$
4. $2n$

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

Both wind and water pollinated flowers are

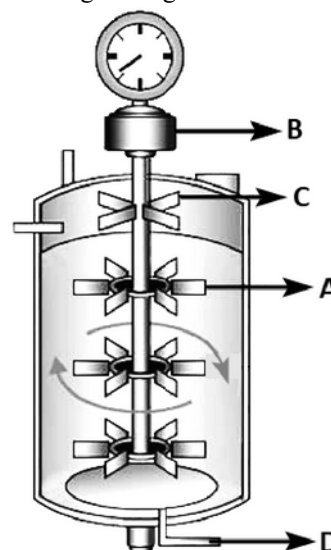
Assertion (A): not very colourful and do not produce nectar.

Reason (R): The flowers produce enormous amount of pollen grains in wind and water pollinated flowers.

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

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).

foam braker from the given figure.



1. D
2. C
3. A
4. B

Epiphytes that are growing on the mango branch is an example of which of the following

1. Predation
2. Amensalism
3. Commensalism
4. Mutualism

Frogs respire in water by skin and buccal cavity and on land by skin, buccal cavity and lungs.

Choose the correct answer from the following :

1. The statement is false for water but true for land
2. The statement is false for both the environment
3. The statement is true for water but false for land
4. The statement is true for both the environment

Find the correct statements:

- A. In the human pregnancy, the major organ systems are formed at the end of 12 weeks.
- B. In human pregnancy the major organ systems are formed at the end of 8 weeks.
- C. In human pregnancy heart is formed after one month of gestation.
- D. In human pregnancy, limbs and digits develop by the end of second month.
- E. In human pregnancy the appearance of hair is usually observed in the fifth month.

Choose the correct answer from the options given below:

1. B, C, D and E only
2. A, C, D and E Only
3. A and E Only
4. B and C Only

Consider the following statements regarding function of adrenal medullary hormones :

of adrenal medullary hormones :

- A. It causes pupillary constriction
- B. It is a hyperglycemic hormone
- C. It causes piloerection
- D. It increases strength of heart contraction

Choose the correct answer from the options given below.

1. A, C and D only
2. D only
3. C and D only
4. B, C and D only

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Read the following statements on plant growth and development. Which of the following is an example of a zygomorphic flower ?

- A. Parthenocarp can be induced by auxins.
- B. Plant growth regulators can be involved in promotion as well as inhibition of growth
- C. Dedifferentiation is a pre-requisite for re-differentiation.
- D. Abscissic acid is a plant growth promoter.
- E. Apical dominance promotes the growth of lateral buds.

Choose the option with all correct statements

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

Which of the following hormones released from the pituitary is actually synthesized in the hypothalamus?

- 1. Follicle - stimulating hormone (FSH)
- 2. Adenocorticotrophic hormone (ACTH)
- 3. Luteinizing hormone (LH)
- 4. Anti - diuretic hormone (ADH)

Which of the following is an example of a non-distilled alcoholic beverage produced by yeast?

- 1. Beer
- 2. Rum
- 3. Whisky
- 4. Brandy

What is the pattern of inheritance for polygenic traits?

- 1. Autosomal dominant pattern
- 2. X-linked recessive inheritance pattern
- 3. Mendelian inheritance pattern
- 4. Non-Mendelian inheritance pattern

Match List-I with List-II

- | List-I | List-II |
|-----------------|-----------------------|
| A. Head | I. Enzymes |
| B. Middle piece | II. Sperm motility |
| C. Acrosome | III. Energy |
| D. Tail | IV. Genetic materials |

Choose the correct answer from the options given below :

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

zygomorphic flower ?

- 1. Pea
- 2. Chilli
- 3. Petunia
- 4. Datura

Which of the following organisms *cannot* fix nitrogen?

- A. *Azotobacter*
- B. *Oscillatoria*
- C. *Anabaena*
- D. *Volvox*
- E. *Nostoc*

Choose the correct answer from the options given below:

- 1. B only
- 2. E only
- 3. A only
- 4. D only

Which one of the following is an example of ex-situ conservation?

- 1. Zoos and botanical gardens
- 2. Protected areas
- 3. National Park
- 4. Wildlife Sanctuary

Who is known as the father of Ecology in India?

- 1. Ram Udar
- 2. Birbal Sahni
- 3. S. R. Kashyap
- 4. Ramesh Misra

Given below are two statements :

Statement I : In the RNA world, RNA is considered the first genetic material evolved to carry out essential life processes. RNA acts as a genetic material and also as a catalyst for some important biochemical reactions in living systems. Being reactive, RNA is unstable.

Statement II : DNA evolved from RNA and is a more stable genetic material. Its double helical strands being complementary, resist changes by evolving repairing mechanism.

- 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

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Given below are two statements :

Statement I: Transfer RNAs and ribosomal RNA do not interact with mRNA.

RNA interference (RNAi) takes place in all

Statement II: eukaryotic organisms as a method of cellular defence.

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

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

Match the **List-I** with **List-II**

List-I	List-II
A. Heart	I. Erythropoietin
B. Kidney	II. Aldosterone
C. Gastro - intestinal tract	III. Atrial natriuretic factor
D. Adrenal Cortex	IV. Secretin

Choose the correct answer from the options given below:

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

All living members of the class Cyclostomata are:

1. Symbiotic
2. Ectoparasite
3. Free living
4. Endoparasite

Streptokinase produced by *bacterium Streptococcus* is used for

1. Liver disease treatment
2. Removing clots from blood vessels
3. Curd production
4. Ethanol production

Role of the water vascular system in Echinoderms is:

- A. Respiration and Locomotion
- B. Excretion and Locomotion
- C. Capture and transport of food
- D. Digestion and Respiration
- E. Digestion and Excretion

Choose the correct answer from the options given below:

1. **B** and **C** only
2. **B**, **D** and **E** only
3. **A** and **B** only
4. **A** and **C** only

Match **List-I** with **List-II**

List-I	List-II
A. Pteridophyte	I. <i>Salvia</i>
B. Bryophyte	II. <i>Ginkgo</i>
C. Angiosperm	III. <i>Polystrichum</i>
D. Gymnosperm	IV. <i>Salvinia</i>

Choose the option with all correct matches.

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

Which are correct:

A. Computed tomography and magnetic resonance imaging detect cancers of internal organs.

B. Chemotherapeutic drugs are used to kill non-cancerous cells.

C. α interferon activate the cancer patients' immune system and helps in destroying the tumour.

D. Chemotherapeutic drugs are biological response modifiers.

E. In the case of leukaemia blood cell counts are decreased.

Choose the correct answer from the options given below:

1. **C** and **D** only
2. **A** and **C** only
3. **B** and **D** only
4. **D** and **E** only

What are the potential drawbacks in adoption of

IVF method?

A. High fatality risk to mother

B. Expensive instruments and reagents

C. Husband/wife necessary for being donors

D. Less adoption of orphans

E. Not available in India

F. Possibility that the early embryo does not survive

Choose the correct answer from the options given below:

1. **A**, **B**, **C**, **D** only
2. **A**, **B**, **C**, **E**, **F** only
3. **B**, **D**, **F** only
4. **A**, **C**, **D**, **F** only

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Consider the following:

The reductive division for the human female **A.gametogenesis** starts earlier than that of the male gametogenesis.

The gap between the first meiotic division and the **B.second** meiotic division is much shorter for males compared to females.

C.The first polar body is associated with the formation of the primary oocyte.

D.Luteinizing Hormone (LH) surge leads to disintegration of the endometrium and onset of menstrual bleeding.

Choose the correct answer from the options given below:

1. **B** and **D** are true
2. **B** and **C** are true
3. **A** and **B** are true
4. **A** and **C** are true

In bryophytes, the gemmae help in which one of the following?

1. Nutrient absorption
2. Gaseous exchange
3. Sexual reproduction
4. Asexual reproduction

Given below are two statements : one is labelled as

Assertion (A) and the other is labelled as Reason (R).

The primary function of the Golgi apparatus

Assertion (A): is to package the materials made by the endoplasmic reticulum and deliver it to intracellular targets and outside the cell.

Vesicles containing materials made by the endoplasmic reticulum fuse with the cis face

Reason (R): apparatus, and they are modified and released from the trans face of the Golgi apparatus.

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

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)**.

Which one of the following statements refers to

Reductionist Biology?

1. Chemical approach to study and understand living organisms
2. Behavioural approach to study and understand living organisms
3. Physico-chemical approach to study and understand living organisms
4. Physiological approach to study and understand living organisms

After maturation, in primary lymphoid organs, the

lymphocytes migrate for interaction with antigens to secondary lymphoid organ(s) / tissue(s) like:

- A.** thymus
- B.** bone marrow
- C.** spleen
- D.** lymph nodes
- E.** Peyer's patches

Choose the correct answer from the options given below:

1. **E, A, B** only
2. **C, D, E** only
3. **B, C, D** only
4. **A, B, C** only

Match **List-I** with **List-II**:

List-I	List-II
A. The Evil Quartet	I. Cryopreservation
B. Ex situ	II. Alien species invasion
C. <i>Lantana camara</i>	III. Causes of biodiversity losses
D. Dodo	IV. Extinction

Choose the options with all correct matches.

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

How many meiotic and mitotic divisions need to o

for the development of a mature female gametophyte from the megaspore mother cell in an angiosperm plant?

1. 1 Meiosis and 3 Mitosis
2. No Meiosis and 2 Mitosis
3. 2 Meiosis and 3 Mitosis
4. 1 Meiosis and 2 Mitosis

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Which of the following type of immunity is present from the time of birth and is a non-specific type of defence in the human body?

1. Cell-mediated Immunity
2. Humoral Immunity
3. Acquired Immunity
4. Innate Immunity

Given below are two statements :

Statement I: Fig fruit is a non-vegetarian fruit as it has enclosed fig wasps in it.

Statement II: Fig wasp and fig tree exhibit mutual relationship as fig wasp completes its life cycle in fig fruit and fig fruit gets pollinated by fig wasp.

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

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

Given below are two statements: One is labelled as

Assertion (A) and the other is labelled as Reason (R).

Cells of the tapetum possess dense

Assertion (A): cytoplasm and generally have more than one nucleus.

Presence of more than one nucleus in the tapetum increases the efficiency of nourishing the developing mother cells.

Reason (R):

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

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).

option :

- A. The eukaryotic ribosomes are 80S and prokaryotic ribosomes are 70S.
- B. Each ribosome has two sub-units.
- C. The two sub-units of 80S ribosomes are 60S and 40S while that of 70S are 50S and 30S.
- D. The two sub-units of 80S ribosomes are 60S and 20S and that of 70S are 50S and 20S.
- E. The two sub-units of 80S are 60S and 30S and that of 70S are 50S and 30S.

1. A, B and E are true
2. B, D and E are true
3. A, B and C are true
4. A, B and D are true

Which one of the following enzymes contains 'H'

as the prosthetic group?

1. Succinate dehydrogenase
2. Catalase
3. RuBisCo
4. Carbonic anhydrase

What is the name of the blood vessel that carries

deoxygenated blood from the body to the heart in a frog?

1. Pulmonary vein
2. Vena cava
3. Aorta
4. Pulmonary artery

Given below are the stages in the life cycle of

pteridophytes. Arrange the following stages in the correct sequence.

- A. Prothallus stage
- B. Meiosis in spore mother cells
- C. Fertilisation
- D. Formation of archegonia and antheridia in gametophyte.
- E. Transfer of antherozoids to the archegonia in presence of water.

Choose the correct answer from the options given below.

1. D, E, C, A and B
2. E, D, C, B and A
3. B, A, D, E and C
4. B, A, E, C and D

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The blue and white selectable markers have been developed which differentiate recombinant colonies from non-recombinant colonies on the basis of their ability to produce colour in the presence of a chromogenic substrate. Given below are two statements about this method:

Statement I: The blue coloured colonies have DNA insert in the plasmid and they are identified as recombinant colonies.

Statement II: The colonies without blue colour have DNA insert in the plasmid and are identified as recombinant colonies.

1. **Statement I** is correct; **Statement II** is incorrect
2. **Statement I** is incorrect; **Statement II** is correct
3. Both **Statement I** and **Statement II** are correct
4. Both **Statement I** and **Statement II** are incorrect

Which of the following microbes is NOT involved in the preparation of household products?

- A. *Aspergillus niger*
- B. *Lactobacillus*
- C. *Trichoderma polysporum*
- D. *Saccharomyces cerevisiae*
- E. *Propionibacterium sharmanii*

Choose the correct answer from the options given below:

1. C and D only
2. C and E only
3. A and B only
4. A and C only

Silencing of specific mRNA is possible via RNAi

because of -

1. Complementary tRNA
2. Non-complementary ssRNA
3. Complementary dsRNA
4. Inhibitory ssRNA

The complex II of mitochondrial electron transport

chain is also known as

1. Cytochrome c oxidase
2. NADH dehydrogenase
3. Cytochrome bc
4. Succinate dehydrogenase

While trying to find out the characteristic of a new found animal, a researcher did the histology of adult animal and observed a cavity with presence of mesodermal tissue towards the body wall but no mesodermal tissue was observed towards the alimentary canal. What could be the possible coelome of that animal?

1. Schizocoelomate
2. Spongocoelomate
3. Acoelomate
4. Pseudocoelomate

Given below are two statements :

In a floral formula $\oplus$ stands for zygomorphic
Statement I :nature of the flower, and G stands for inferior ovary.

In a floral formula $\oplus$ stands for
Statement II:actinomorphic nature of the flower and G stands for superior ovary.

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

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

Given below are two statements:

Statement I:In ecosystem, there is unidirectional flow of energy of sun from producers to consumers.

Statement II:Ecosystems are exempted from 2nd law of thermodynamics.

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

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

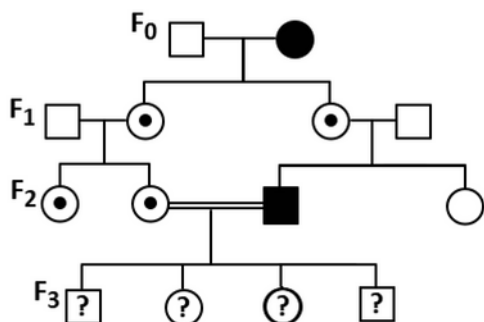
Which of the following is the unit of productivity

Ecosystem?

1. KCal m^{-3}
2. $(\text{KCal m}^{-2})\text{yr}^{-1}$
3. gm^{-2}
4. KCal m^{-2}

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With the help of given pedigree, find out the probability for the birth of a child having no disease and being a carrier (has the disease mutation in one allele of the gene) in F_3 generation.



- ☐ Unaffected male
- ☒ Affected male
- ☒ Carrier female
- ☐ Unaffected female
- ☒ Affected female

1. $1/8$
2. Zero
3. $1/4$
4. $1/2$

In the seeds of cereals, the outer covering of endosperm separates the embryo by a protein-rich layer called:

1. Integument
2. Aleurone layer
3. Coleoptile
4. Coleorhiza

Match List-I with List-II:

- | List-I | List-II |
|------------------|-----------------------------|
| A. Chlorophyll a | I. Yellow-green |
| B. Chlorophyll b | II. Yellow |
| C. Xanthophylls | III. Blue-green |
| D. Carotenoids | IV. Yellow to Yellow-orange |

Choose the option with all **correct** matches:

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

Who proposed that the genetic code for amino acids should be made up of three nucleotides?

1. Jacques Monod
2. Franklin Stahl
3. George Gamow
4. Francis Crick

Histones are enriched with-

1. Phenylalanine & Leucine
2. Phenylalanine & Arginine
3. Lysine & Arginine
4. Leucine & Lysine

Which of the following enzyme(s) are NOT essential for gene cloning?

- A. Restriction enzymes
- B. DNA ligase
- C. DNA mutase
- D. DNA recombinase
- E. DNA polymerase

Choose the correct answer from the options given below:

1. D and E only
2. B and C only
3. C and D only
4. A and B only

A specialised membranous structure in a prokaryotic cell which helps in cell wall formation, DNA replication is :

1. Cristae
2. Endoplasmic Reticulum
3. Mesosome
4. Chromatophores

Which factor is important for termination of transcription?

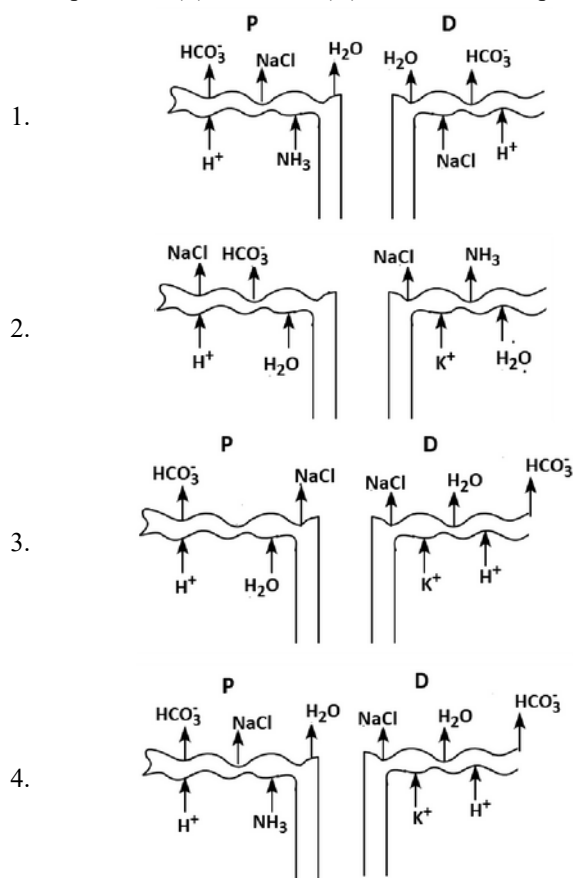
1. ρ (rho)
2. γ (gamma)
3. α (alpha)
4. σ (sigma)

Which of the following statement is correct about location of the male from copulatory pad?

1. Second digit of fore limb
2. First digit of the fore limb
3. First and Second digit of fore limb
4. First digit of hind limb

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Which of the following diagrams is correct with regard to the proximal (P) and distal (D) tubule of the Nephron.



Identify the statement that is NOT correct.

1. Antigen binding site is located at C-terminal region of antibody molecules.
2. Constant region of heavy and light chains are located at C-terminus of antibody molecules.
3. Each antibody has two light and two heavy chain.
4. The heavy and light chains are held together by disulfide bonds.

Match List-I with List-II:

List-I

- A. Scutellum
- B. Non-albuminous
- C. Epiblast
- D. Perisperm

List-II

- I. Persistent nucellus
- II. Cotyledon of Monocot seed
- III. Groundnut
- IV. Rudimentary cotyledon

Choose the option with all correct matches.

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

the structure of monocot stem.

1. Vascular bundles are conjoint and closed.
2. Phloem parenchyma is absent.
3. Hypodermis is parenchymatous.
4. Vascular bundles are scattered.

Twins are born to a family that lives next door to

The twins are a boy and a girl. Which of the following must be true?

1. They were conceived through in vitro fertilization.
2. They have 75% identical genetic content.
3. They are monozygotic twins.
4. They are fraternal twins.

Sweet potato and potato represent a certain type of

evolution. Select the correct combination of terms to explain the evolution.

1. Homology, convergent
2. Analogy, divergent
3. Analogy, convergent
4. Homology, divergent

Which one of the following phytohormones promotes

nutrient mobilization which helps in the delay of leaf senescence in plants?

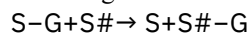
1. Gibberellin
2. Cytokinin
3. Ethylene
4. Abscissic acid

Why can't insulin be given orally to diabetic patients?

1. Because of structural variation
2. Its bioavailability will be increased
3. Human body will elicit strong immune response
4. It will be digested in Gastro-Intestinal (GI) tract

Name the class of enzyme that usually catalyzes the

following reaction :



Where, G $\rightarrow$ a group other than hydrogen

S $\rightarrow$ a substrate

S# $\rightarrow$ another substrate

1. Transferase
2. Ligase
3. Hydrolase
4. Lyase

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Given below are two statements :

The DNA fragments extracted from gel

Statement I : electrophoresis can be used in construction of recombinant DNA.

Smaller size DNA fragments are observed

Statement II : near anode while larger fragments are found near the wells in an agarose gel.

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

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

The correct sequence of events in the life cycle of

bryophytes is

- A. Fusion of antherozoid with egg.
- B. Attachment of gametophyte to substratum.
- C. Reduction division to produce haploid spores.
- D. Formation of sporophyte.
- E. Release of antherozoids into water.

Choose the correct answer from the options given below :

1. B, E, A, D, C
2. D, E, A, B, C
3. D, E, A, C, B
4. B, E, A, C, D

Genes R and Y follow independent assortment. If

RRYY produce round yellow seed and rryy produce wrinkled green seeds, what will be then phenotypic ratio of the F₂ generation?

1. Phenotypic ratio - 9 : 3 : 3 : 1
2. Phenotypic ratio - 9 : 7
3. Phenotypic ratio - 1 : 2 : 1
4. Phenotypic ratio - 3 : 1

Each of the following characteristics represent a

Kingdom proposed by Whittaker. Arrange the following in increasing order of complexity of body organization.

- A. Multicellular heterotrophs with cell wall made of chitin.
- B. Heterotrophs with tissue/organ/organ system level of body organization.
- C. Prokaryotes with cell wall made of polysaccharides and amino acids.
- D. Eukaryotic autotrophs with tissue/organ level of body organization.
- E. Eukaryotes with cellular body organization.

Choose the correct answer from the options given below :

1. A, C, E, D, B
2. C, E, A, B, D
3. A, C, E, B, D
4. C, E, A, D, B

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

List-I

List-II

- | | |
|-------------------|--------------------------|
| A. Centromere | I. Mitochondrion |
| B. Cilium Cristae | II. Cell division |
| C. Cell membrane | III. Cell movement |
| D. . | IV. Phospholipid Bilayer |

Choose the correct answer from the options given below :

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

Which one of the following equations represent

Verhulst-Pearl Logistic Growth of population?

1. $\frac{dN}{dt} = rN \left(\frac{N-K}{N} \right)$
2. $\frac{dN}{dt} = N(r-K)$
3. $\frac{dN}{dt} = r \left(K - \frac{N}{K} \right)$
4. $\frac{dN}{dt} = rN \left(K - \frac{N}{K} \right)$

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

List-I

List-II

Rapid spasms in muscle due to low electrolyte fluid I.

Damaged alveolar walls and decreased respiratory surface II.

Acute chest pain when not

C. Glomerulonephritis III. enough oxygen is reaching to heart muscle

D. Tetany

IV. Inflammation of glomeruli of kidney

Choose the correct answer from the options given below :

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

Cardiac activities of the heart are regulated by :

- A. Nodal tissue
- B. A special neural centre in the medulla oblongata
- C. Adrenal medullary hormones
- D. Adrenal cortical hormones

Choose the correct answer from the options given below :

1. A, C and D only
2. A, B and D only
3. A, B and C only
4. A, B C and D

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Fill OMR Sheet*

*If above link doesn't work, please go to test link from where you got the pdf and fill OMR from there. After filling the OMR, you would get answers and explanations for the questions in the test.