

Q.1

For a transistor $\frac{1}{\alpha_{dc}} - \frac{1}{\beta_{dc}}$ is (α_{dc} and β_{dc} are current gains)

Ans

☒ 1. Zero

☒ 2. -1

☒ 3. 1

☒ 4. 2

Question Type : **MCQ**

Question ID : 37135112708

Option 1 ID : 37135150829

Option 2 ID : 37135150831

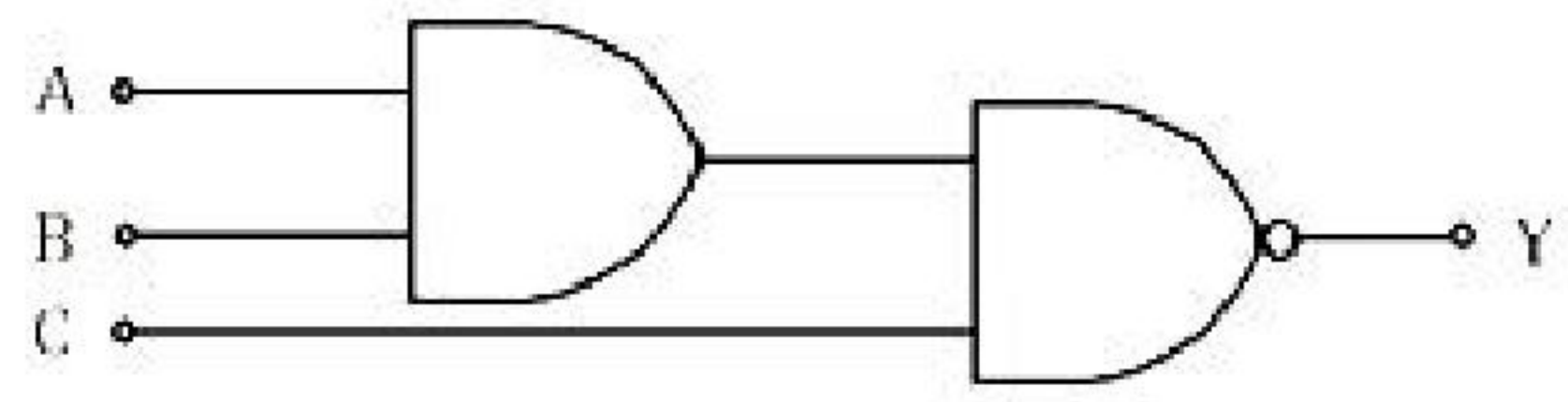
Option 3 ID : 37135150830

Option 4 ID : 37135150832

Status : **Answered**

Chosen Option : 1

Q.2 For the following combination of logic gates , when all the three inputs are first high and then low, the output 'Y' will respectively be



Ans

☒ 1. 1 , 0

☒ 2. 0 , 0

☒ 3. 1 , 1

☒ 4. 0 , 1

Question Type : **MCQ**

Question ID : 37135112743

Option 1 ID : 37135150969

Option 2 ID : 37135150971

Option 3 ID : 37135150970

Option 4 ID : 37135150972

Status : **Answered**

Chosen Option : 4

Q.3

When a ray of light is incident normally on one refracting surface of an equilateral prism of refractive index 1.5, the emerging ray $\left[\sin^{-1}\left(\frac{1}{1.5}\right) = 41.8^\circ \right]$

Ans

 1.

just grazes the second refracting surface.

 2. is deviated by 20° .

 3. is deviated by 30° .

 4.

undergoes total internal reflection at second refracting surface.

Question Type : **MCQ**

Question ID : 37135112727

Option 1 ID : 37135150907

Option 2 ID : 37135150905

Option 3 ID : 37135150906

Option 4 ID : 37135150908

Status : **Answered**

Chosen Option : 4

Q.4 The mutual inductance between two coplanar concentric rings A and B of radii 'R₁' and 'R₂' placed in air when a current 'I' flows through ring A is (R₁ >> R₂)
(μ₀ = permeability of free space)

Ans

☒ 1. $\frac{\mu_0 \pi R_2}{R_1}$

☒ 2. $\frac{\mu_0 \pi R_1}{R_2}$

☒ 3. $\frac{\mu_0 \pi R_2^2}{2R_1}$

☒ 4. $\frac{\mu_0 \pi R_1^2}{2R_2}$

Question Type : **MCQ**

Question ID : **37135112718**

Option 1 ID : **37135150871**

Option 2 ID : **37135150872**

Option 3 ID : **37135150869**

Option 4 ID : **37135150870**

Status : **Answered**

Chosen Option : **4**

Q.5

A particle of mass 'm' is rotating in a circle of radius 'r' having angular momentum

'L'. Then the centripetal force will be

Ans

 1. $\frac{L^2}{mr}$

 2. $\frac{L^2 m}{r}$

 3. $\frac{L^2}{mr^3}$

 4. $\frac{L^2}{mr^2}$

Question Type : **MCQ**

Question ID : 37135112701

Option 1 ID : 37135150801

Option 2 ID : 37135150802

Option 3 ID : 37135150803

Option 4 ID : 37135150804

Status : **Answered**

Chosen Option : 3

Q.6

If $|\vec{A}_1| = 3$, $|\vec{A}_2| = 4$ and $|\vec{A}_1 + \vec{A}_2| = 4$ the value of $(2\vec{A}_1 + \vec{A}_2) \cdot (\vec{A}_1 - \vec{A}_2)$ is

Ans

☒ 1. $4 \cdot 5$

☒ 2. $5 \cdot 5$

☒ 3. $6 \cdot 5$

☒ 4. $2 \cdot 5$

Question Type : **MCQ**

Question ID : 37135112714

Option 1 ID : 37135150854

Option 2 ID : 37135150855

Option 3 ID : 37135150856

Option 4 ID : 37135150853

Status : **Answered**

Chosen Option : 2

Q.7

The effective length of a magnet is 31.4 cm and its pole strength is 0.8 A m. The magnetic moment, if it is bent in the form of a semicircle is

Ans

☒ 1. 0.12 A m^2

☒ 2. 0.16 A m^2

☒ 3. 1.2 A m^2

☒ 4. 1.6 A m^2

Question Type : **MCQ**

Question ID : 37135112731

Option 1 ID : 37135150924

Option 2 ID : 37135150923

Option 3 ID : 37135150922

Option 4 ID : 37135150921

Status : **Answered**

Chosen Option : 4

Q.8 A force $F = (10 + 0.5x)$ N acts on a particle in the x-direction. The work done by the force in displacing the particle from $x = 0$ to $x = 2$ metre is

Ans

 1. 63 J

 2. 42 J

 3. 31.5 J

 4. 21 J

Question Type : **MCQ**

Question ID : 37135112719

Option 1 ID : 37135150873

Option 2 ID : 37135150874

Option 3 ID : 37135150875

Option 4 ID : 37135150876

Status : **Answered**

Chosen Option : 4

Q.9

A stone of mass 2kg attached at one end of a 2m long string is whirled in horizontal circle. The string makes an angle of 45° with the vertical then the centripetal force acting on the stone is ($g=10 \text{ m/s}^2$, $\tan 45^\circ =1$)

Ans

 1. 30 N

 2. 40 N

 3. 20 N

 4. 10 N

Question Type : MCQ

Question ID : 37135112711

Option 1 ID : 37135150843

Option 2 ID : 37135150844

Option 3 ID : 37135150842

Option 4 ID : 37135150841

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.10 The moment of inertia of a ring about an axis passing through its centre and perpendicular to its plane is 'I'. It is rotating with angular velocity ' ω '. Another identical ring is gently placed on it so that their centres coincide. If both the rings are rotating about the same axis, then loss in kinetic energy is

Ans

 1. $I\omega^2/3$

 2. $I\omega^2/2$

 3. $I\omega^2/4$

 4. $I\omega^2$

Question Type : **MCQ**

Question ID : **37135112729**

Option 1 ID : **37135150914**

Option 2 ID : **37135150915**

Option 3 ID : **37135150913**

Option 4 ID : **37135150916**

Status : **Answered**

Chosen Option : **3**

Q.11 Assuming the earth to be a sphere of uniform density, the ratio of acceleration due to gravity on the earth's surface to its value at halfway towards the centre of the earth, will be

Ans

✓ 1. $2 : 1$

✗ 2. $2 : 3$

✗ 3. $1 : 1$

✗ 4. $1 : 2$

Question Type : **MCQ**

Question ID : 37135112723

Option 1 ID : 37135150889

Option 2 ID : 37135150890

Option 3 ID : 37135150891

Option 4 ID : 37135150892

Status : **Answered**

Chosen Option : 4

Q.12 The Young's double-slit experiment is performed with the light of blue colour ($\lambda_b=4350 \text{ \AA}$) and then with green colour ($\lambda_g=5450 \text{ \AA}$). Without changing experimental setup, if the distance of the sixth fringe from the centre is determined for both the colours as x_{blue} and x_{green} , then $x_{\text{blue}} : x_{\text{green}}$ is nearly

Ans

 1. 0.2

 2. 1.2

 3. 0.8

 4. 1.5

Question Type : **MCQ**

Question ID : **37135112730**

Option 1 ID : **37135150920**

Option 2 ID : **37135150918**

Option 3 ID : **37135150919**

Option 4 ID : **37135150917**

Status : **Answered**

Chosen Option : **3**

Q.13 A proton moving in perpendicular magnetic field possess energy 'E'. The magnetic field is increased four times. But the proton is constrained to move in the path of same radius. The kinetic energy will increase

Ans

✓ 1. 16 times.

✗ 2. 8 times.

✗ 3. 2 times.

✗ 4. 4 times.

Question Type : **MCQ**

Question ID : 37135112738

Option 1 ID : 37135150949

Option 2 ID : 37135150950

Option 3 ID : 37135150952

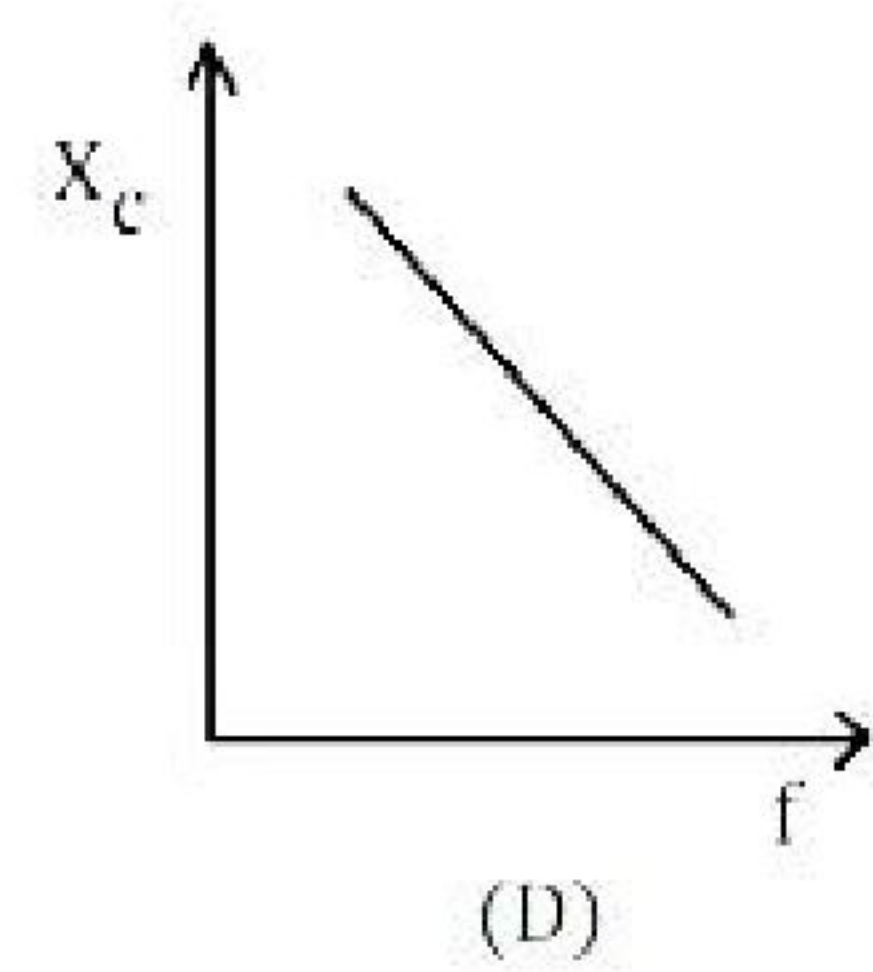
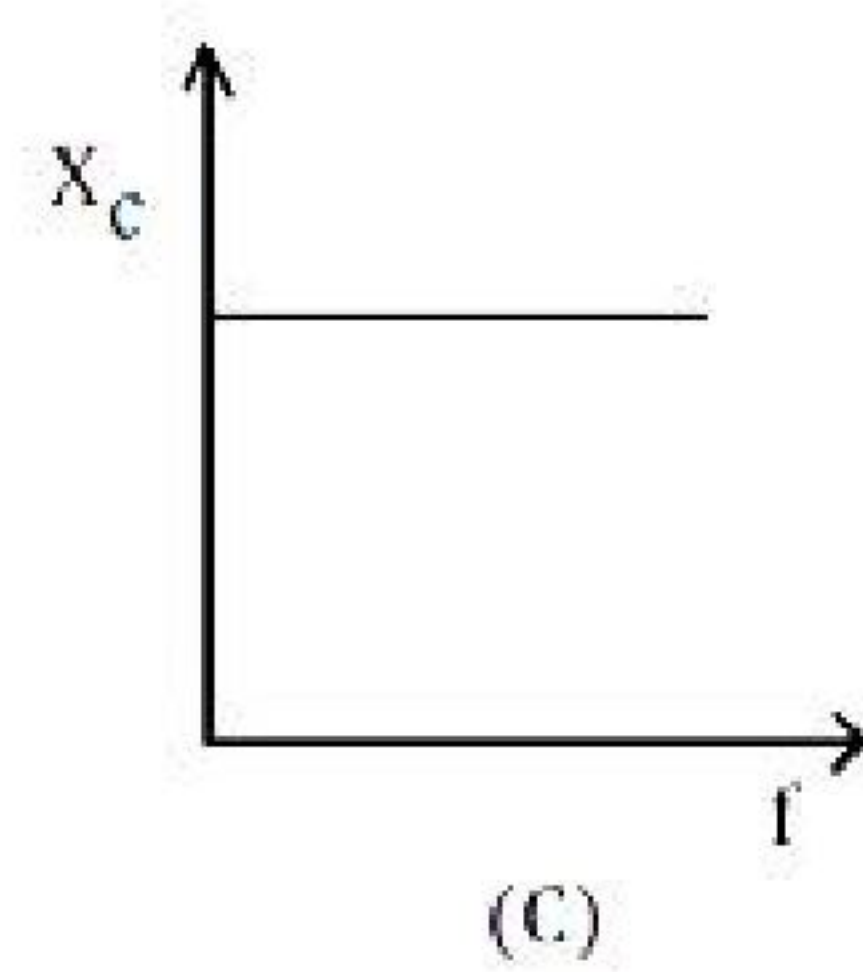
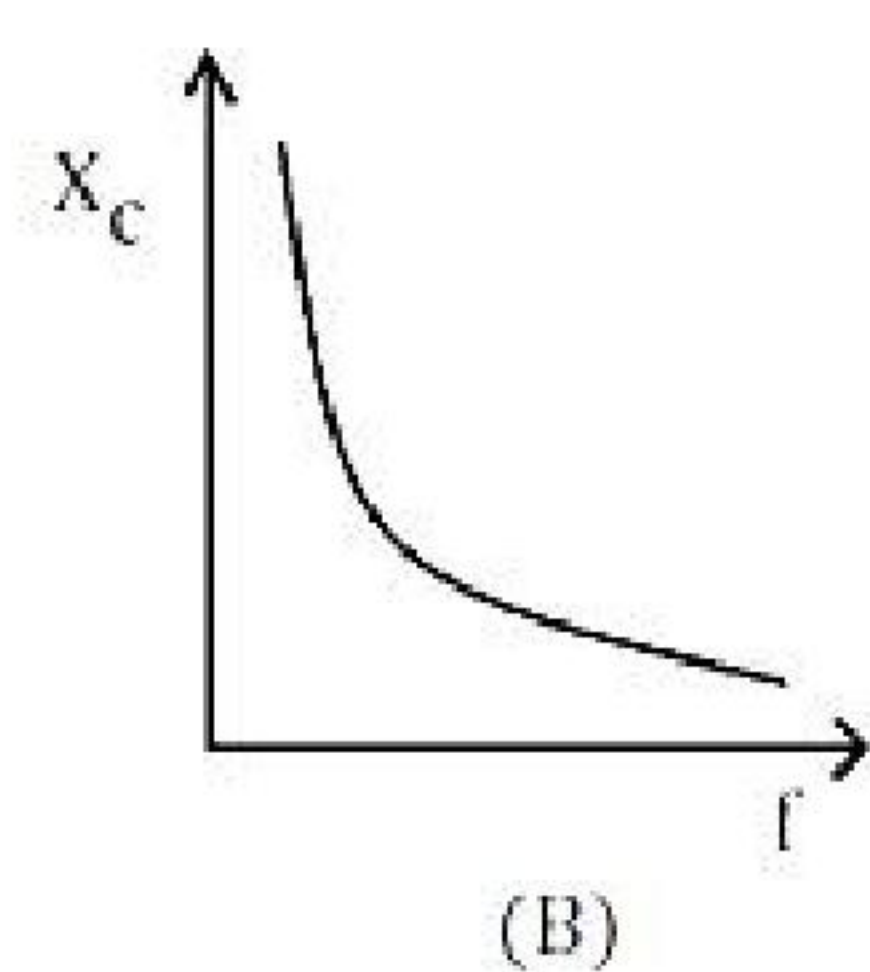
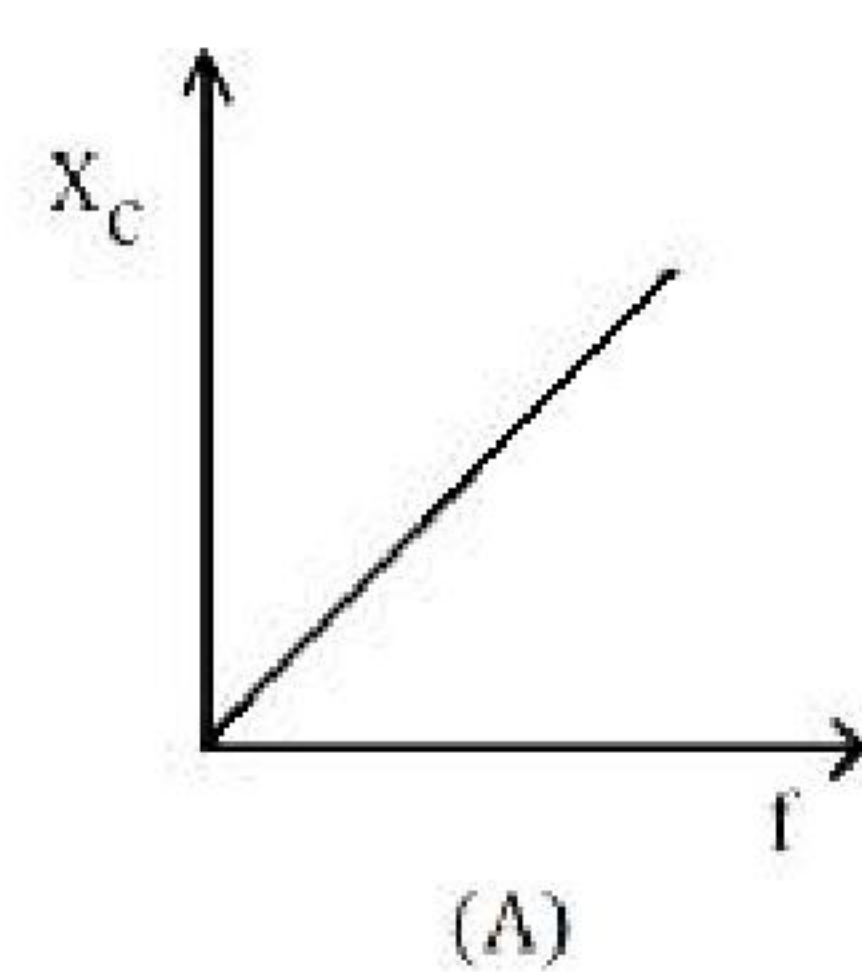
Option 4 ID : 37135150951

Status : **Answered**

Chosen Option : 1

Q.14

When an alternating emf is applied across a capacitor C , the graph of capacitive reactance (X_c) with frequency (f) of the source of alternating signal is



Ans

✓ 1. (B)

✗ 2. (A)

✗ 3. (C)

✗ 4. (D)

Question Type : **MCQ**

Question ID : **37135112733**

Option 1 ID : **37135150930**

Option 2 ID : **37135150929**

Option 3 ID : **37135150931**

Option 4 ID : **37135150932**

Status : **Answered**

Chosen Option : **1**

Q.15 Water rises in a capillary tube to a certain height such that the upward force due to surface tension is balanced by 63×10^{-4} N force due to the weight of the water. The surface tension of water is 7×10^{-2} N/m . The inner diameter of the capillary tube is nearly ($\pi = 22/7$)

Ans

 1. 6.3×10^{-1} m

 2. 3×10^{-2} m

 3. 7×10^{-2} m

 4. 9×10^{-2} m

Question Type : **MCQ**

Question ID : 37135112737

Option 1 ID : 37135150947

Option 2 ID : 37135150945

Option 3 ID : 37135150948

Option 4 ID : 37135150946

Status : **Answered**

Chosen Option : 2

Q.16

If $\vec{A} = a_1\hat{i} + a_2\hat{j} + a_3\hat{k}$, then $\hat{i} \times (\hat{i} \times \vec{A})$ is

Ans

☐ 1. $a_2\hat{j} - a_3\hat{k}$

☐ 2. $a_1\hat{j} + a_3\hat{k}$

☒ 3. $-a_2\hat{j} - a_3\hat{k}$

☐ 4. $a_3\hat{j} - a_2\hat{k}$

Question Type : MCQ

Question ID : 37135112709

Option 1 ID : 37135150833

Option 2 ID : 37135150834

Option 3 ID : 37135150836

Option 4 ID : 37135150835

Status : Answered

Chosen Option : 3

Q.17 A solenoid having 250 turns/metre has a core of a material with relative permeability 500. What is approximate value of the magnetisation of the core material, if a current of 2A is passed through it ?

Ans

 1. $2 \times 10^5 \text{ A/m}$

 2. $1.5 \times 10^5 \text{ A/m}$

 3. $2.5 \times 10^5 \text{ A/m}$

 4. $1 \times 10^5 \text{ A/m}$

Question Type : **MCQ**

Question ID : 37135112721

Option 1 ID : 37135150883

Option 2 ID : 37135150882

Option 3 ID : 37135150884

Option 4 ID : 37135150881

Status : **Answered**

Chosen Option : 4

Q.18 If λ_1 and λ_2 are the wavelengths of the first spectral line of the Lyman and Paschen series respectively, then $\lambda_1:\lambda_2$ is

Ans

 1. 1 : 3

 2. 7 : 50

 3. 1 : 30

 4. 7 : 108

Question Type : **MCQ**

Question ID : 37135112713

Option 1 ID : 37135150849

Option 2 ID : 37135150851

Option 3 ID : 37135150850

Option 4 ID : 37135150852

Status : **Answered**

Chosen Option : 4

Q.19

A string of length 'L' and linear density 'm' has a fundamental frequency 'n' when stretched by tension 'T'. The fundamental frequency of another string having double the length and double linear density, when same tension is applied is

Ans

✓ 1. $\frac{n}{2\sqrt{2}}$

✗ 2. $2n$

✗ 3. $\frac{n}{2}$

✗ 4. $\frac{n}{\sqrt{2}}$

Question Type : **MCQ**

Question ID : 37135112735

Option 1 ID : 37135150940

Option 2 ID : 37135150937

Option 3 ID : 37135150939

Option 4 ID : 37135150938

Status : **Answered**

Chosen Option : 1

Q.20 A plano-convex lens is made from glass of refractive index 1.5. The radius of curvature of its curved surface is 'R'. Its focal length is

Ans

 1. $1.5 R$

 2. $2 R$

 3. R

 4. $R/2$

Question Type : **MCQ**

Question ID : **37135112742**

Option 1 ID : **37135150967**

Option 2 ID : **37135150968**

Option 3 ID : **37135150966**

Option 4 ID : **37135150965**

Status : **Answered**

Chosen Option : **3**

Q.21 The period of oscillation of a mass 'M' suspended from a spring of negligible mass is 'T'. If along with it another mass M is also suspended, the period of oscillation now will be

Ans

 1. T

 2. 2 T

 3. $\frac{T}{\sqrt{2}}$

 4. $\sqrt{2} T$

Question Type : **MCQ**

Question ID : 37135112707

Option 1 ID : 37135150825

Option 2 ID : 37135150827

Option 3 ID : 37135150826

Option 4 ID : 37135150828

Status : **Answered**

Chosen Option : 2

Q.22 For a photocell, the work function is ' ϕ ' and the stopping potential is ' V_s '. The wavelength of the incident radiation is

Ans

✓ 1.
$$\frac{hc}{\phi + eV_s}$$

✗ 2.
$$\frac{\phi + eV_s}{hc}$$

✗ 3.
$$\frac{\phi - eV_s}{hc}$$

✗ 4.
$$\frac{hc}{\phi - eV_s}$$

Question Type : **MCQ**

Question ID : 37135112725

Option 1 ID : 37135150898

Option 2 ID : 37135150897

Option 3 ID : 37135150899

Option 4 ID : 37135150900

Status : **Answered**

Chosen Option : 1

Q.23

The fundamental frequency of a string stretched with a weight 'M' kg is 'n' , hertz.

Keeping the vibrating length constant, the weight required to produce its octave is

Ans

 1. M

 2. 8 M

 3. 2 M

 4. 4 M

Question Type : **MCQ**

Question ID : 37135112720

Option 1 ID : 37135150877

Option 2 ID : 37135150880

Option 3 ID : 37135150878

Option 4 ID : 37135150879

Status : **Answered**

Chosen Option : 2

Q.24 A mass 'm' suspended from a spring stretches it by 5cm when on the surface of the earth . The mass is then taken on to a height of 1600 km above earth's surface and again suspended from the same spring. At this altitude the extension of the spring is (Radius of earth = 6400 km)

Ans

 1. 6.4 cm

 2. 1.6 cm

 3. 3.2 cm

 4. 0.8 cm

Question Type : **MCQ**

Question ID : 37135112750

Option 1 ID : 37135151000

Option 2 ID : 37135150998

Option 3 ID : 37135150999

Option 4 ID : 37135150997

Status : **Answered**

Chosen Option : 1

Q.25

The electron in the hydrogen atom is moving with a speed of 2×10^6 m/s in an orbit of radius $0.5 \text{ \AA}$. The magnetic moment of the revolving electron is

Ans

 1. $15 \times 10^{-24} \text{ Am}^2$

 2. $11 \times 10^{-24} \text{ Am}^2$

 3. $6 \times 10^{-24} \text{ Am}^2$

 4. $8 \times 10^{-24} \text{ Am}^2$

Question Type : **MCQ**

Question ID : **37135112748**

Option 1 ID : **37135150992**

Option 2 ID : **37135150991**

Option 3 ID : **37135150989**

Option 4 ID : **37135150990**

Status : **Answered**

Chosen Option : **4**

Q.26 In resonance tube, the first and second resonance are heard when water level is 24·1 cm and 74·1 cm respectively, below the open end of the tube. The inner diameter of the tube is

Ans

 1. 5 cm

 2. 3 cm

 3. 4 cm

 4. 2 cm

Question Type : **MCQ**

Question ID : 37135112703

Option 1 ID : 37135150812

Option 2 ID : 37135150810

Option 3 ID : 37135150811

Option 4 ID : 37135150809

Status : **Answered**

Chosen Option : 3

Q.27 A ring and a disc roll on horizontal surface without slipping with same linear velocity. If both have same mass and total kinetic energy of the ring is 4 J then total kinetic energy of the disc is

Ans

 1. 2 J

 2. 6 J

 3. 8 J

 4. 3 J

Question Type : **MCQ**

Question ID : 37135112716

Option 1 ID : 37135150861

Option 2 ID : 37135150863

Option 3 ID : 37135150864

Option 4 ID : 37135150862

Status : **Answered**

Chosen Option : 2

Q.28 A positively charged particle (q) travelling at 30° with respect to the direction of magnetic field of strength 2.4×10^{-6} T experiences a force of 4.8×10^{-19} N. The speed of charged particle will be

$$[q = 1.6 \times 10^{-19} \text{ C}, \sin 30^\circ = \frac{1}{2}, \cos 30^\circ = \frac{\sqrt{3}}{2}]$$

Ans

 1. 5×10^6 m/s.

 2. 2.5×10^6 m/s.

 3. 2×10^6 m/s.

 4. 7.5×10^6 m/s.

Question Type : **MCQ**

Question ID : 37135112741

Option 1 ID : 37135150962

Option 2 ID : 37135150963

Option 3 ID : 37135150964

Option 4 ID : 37135150961

Status : **Answered**

Chosen Option : 2

Q.29

In suspended type of moving coil galvanometer

Ans

 1. coil is stationary.

 2. magnet is stationary.

 3. magnet and coil are stationary.

 4. magnet and coil are moving.

Question Type : **MCQ**

Question ID : 37135112715

Option 1 ID : 37135150858

Option 2 ID : 37135150857

Option 3 ID : 37135150860

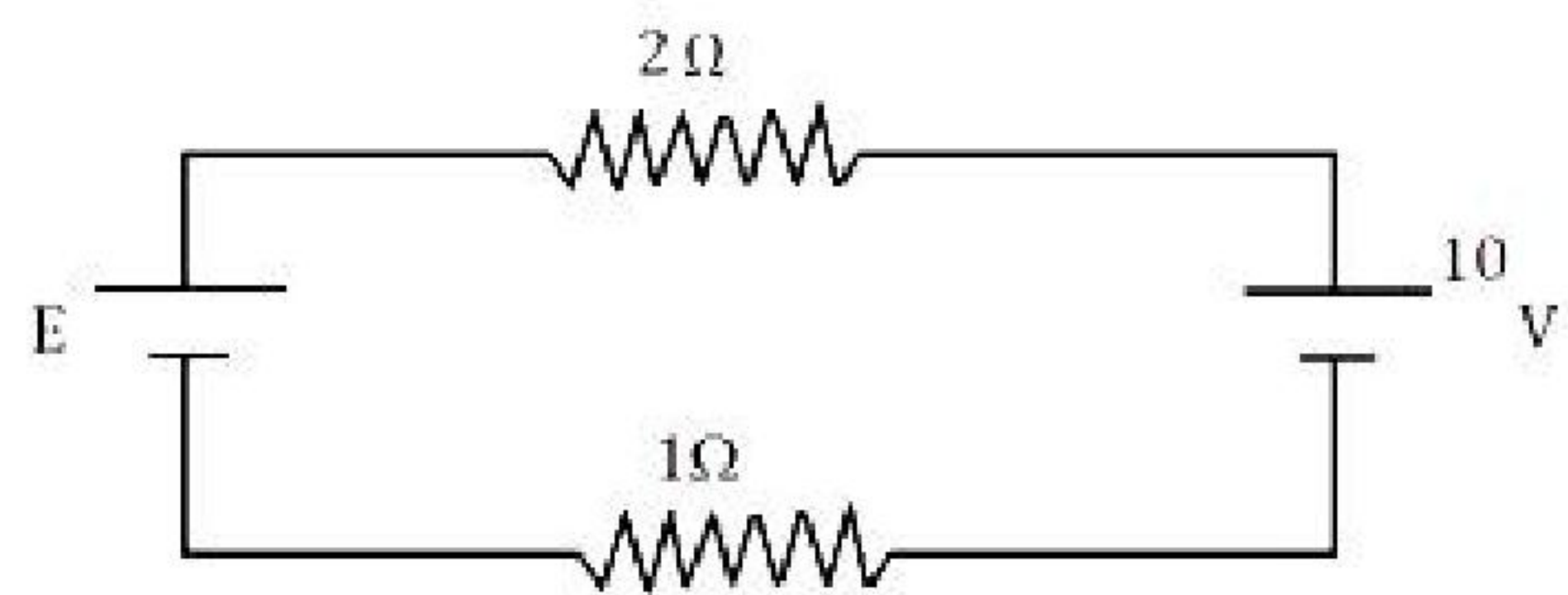
Option 4 ID : 37135150859

Status : **Answered**

Chosen Option : 1

Q.30

A current of 3 A flows through the following circuit in anticlockwise direction as well as in clockwise direction. The value of E respectively is



Ans

☒ 1. 3 V , 7 V

☒ 2. 4 V , 8 V

☒ 3. 6 V , 10 V

☒ 4. 1 V , 19 V

Question Type : MCQ

Question ID : 37135112704

Option 1 ID : 37135150816

Option 2 ID : 37135150814

Option 3 ID : 37135150813

Option 4 ID : 37135150815

Status : Answered

Chosen Option : 4

Q.31 The relation between force 'F' and density 'd' is $F \propto x/\sqrt{d}$. The dimensions of 'x' are

Ans

✓ 1. $[L^{-\frac{1}{2}} M^{\frac{3}{2}} T^{-2}]$

✗ 2. $[L^{-2} M^{\frac{3}{2}} T^{\frac{1}{2}}]$

✗ 3. $[L^2 M^{\frac{1}{2}} T^{\frac{3}{2}}]$

✗ 4. $[L^{\frac{1}{2}} M^{\frac{3}{2}} T^{-2}]$

Question Type : **MCQ**

Question ID : **37135112705**

Option 1 ID : **37135150819**

Option 2 ID : **37135150820**

Option 3 ID : **37135150818**

Option 4 ID : **37135150817**

Status : **Answered**

Chosen Option : **1**

Q.32 In balanced metre bridge $5\ \Omega$ is connected in the left gap and $R\ \Omega$ in the right gap.

When $R\ \Omega$ is shunted with an equal resistance, the new balance point is at $1.6\ \ell_1$

where ' ℓ_1 ' is the earlier balancing length. The value of ' ℓ_1 ' is

Ans

✓ 1. 25 cm

✗ 2. 40 cm

✗ 3. 35 cm

✗ 4. 30 cm

Question Type : **MCQ**

Question ID : 37135112734

Option 1 ID : 37135150933

Option 2 ID : 37135150936

Option 3 ID : 37135150935

Option 4 ID : 37135150934

Status : **Answered**

Chosen Option : 1

Q.33

Electric field intensity at a point outside uniformly charged thin infinite plane sheet is ' E_1 '. The electric field intensity at a point near and outside the surface of a positively charged conductor of any shape is ' E_2 '. The relation between magnitude of E_1 and E_2 is (assume air as the medium)

Ans

 1. $E_1 = E_2$

 2. $2E_1 = E_2$

 3. $E_1 = 2E_2$

 4. $E_1 = 4E_2$

Question Type : **MCQ**

Question ID : 37135112712

Option 1 ID : 37135150845

Option 2 ID : 37135150847

Option 3 ID : 37135150846

Option 4 ID : 37135150848

Status : **Answered**

Chosen Option : 2

Q.34 In communication with the help of antenna , the range covered (for the line of sight propagation) is initially 'd'. If the height of antenna is doubled , the range covered would become

Ans

 1. 3 d

 2. $\sqrt{2}$ d

 3. 4 d

 4. 2 d

Question Type : **MCQ**

Question ID : 37135112710

Option 1 ID : 37135150839

Option 2 ID : 37135150837

Option 3 ID : 37135150840

Option 4 ID : 37135150838

Status : **Answered**

Chosen Option : 2

Q.35 A body of mass 'm' is moving along a circle of radius 'r' with linear speed 'V'. Now,
to change the linear speed to $\frac{V}{2}$ and to move it along the circle of radius '4r',
required change in the centripetal force of the body is

Ans

✓ 1. decrease by $\frac{15}{16}$

✗ 2. increase by $\frac{11}{16}$

✗ 3. increase by $\frac{9}{16}$

✗ 4. decrease by $\frac{5}{16}$

Question Type : **MCQ**

Question ID : 37135112726

Option 1 ID : 37135150902

Option 2 ID : 37135150901

Option 3 ID : 37135150904

Option 4 ID : 37135150903

Status : **Answered**

Chosen Option : 1

Q.36

Pascal's law is not applied in

Ans

- ☒ 1. a hydraulic jack.
- ☒ 2. hydraulic breaks.
- ☒ 3. a hydraulic press.
- ☒ 4. an autumiser.

Question Type : **MCQ**

Question ID : 37135112722

Option 1 ID : 37135150888

Option 2 ID : 37135150887

Option 3 ID : 37135150886

Option 4 ID : 37135150885

Status : **Answered**

Chosen Option : 4

Q.37 A small mass 'm' is suspended at the end of a wire having (negligible mass) length 'L' and cross-sectional area 'A'. The frequency of oscillation for the S.H.M. along the vertical line is [Y = Young's modulus of material of the wire]

Ans

 1. $\frac{1}{2\pi} \left[\frac{YAL}{m} \right]^{\frac{1}{2}}$

 2. $\frac{1}{2\pi} \left[\frac{YA}{mL} \right]^{\frac{1}{2}}$

 3. $\frac{1}{2\pi} \left[\frac{mA}{YL} \right]^{\frac{1}{2}}$

 4. $\frac{1}{2\pi} \left[\frac{YL}{mA} \right]^{\frac{1}{2}}$

Question Type : **MCQ**

Question ID : 37135112746

Option 1 ID : 37135150983

Option 2 ID : 37135150981

Option 3 ID : 37135150984

Option 4 ID : 37135150982

Status : **Answered**

Chosen Option : 3

Q.38 A uniform wire has length 'L' and weight 'W'. One end of the wire is attached rigidly to a point in the roof and weight 'W₁' is suspended from its lower end. If 'A' is the cross-sectional area of the wire then the stress in the wire at a height $\frac{3L}{4}$ from its lower end is

Ans

✓ 1. $\frac{4W_1 + 3W}{4A}$

✗ 2. $\frac{3W_1 - 4W}{2A}$

✗ 3. $\frac{3W_1 + 4W}{2A}$

✗ 4. $\frac{4W_1 - 3W}{4A}$

Question Type : **MCQ**
 Question ID : **37135112740**
 Option 1 ID : **37135150960**
 Option 2 ID : **37135150958**
 Option 3 ID : **37135150957**
 Option 4 ID : **37135150959**
 Status : **Answered**
 Chosen Option : **4**

Q.39 For an ideal gas, if the ratio of Molar specific heats $\gamma = 1.4$, then the specific heat at constant pressure C_p , specific heat at constant volume C_v and corresponding molecule are respectively

Ans

 1. $\frac{5}{2}R$, $\frac{3}{2}R$, monoatomic.

 2. $\frac{9}{2}R$, $\frac{7}{2}R$, polyatomic.

 3.

$\frac{7}{2}R$, $\frac{5}{2}R$, non-rigid diatomic.

 4. $\frac{7}{2}R$, $\frac{5}{2}R$, rigid diatomic.

Question Type : **MCQ**

Question ID : 37135112739

Option 1 ID : 37135150953

Option 2 ID : 37135150956

Option 3 ID : 37135150954

Option 4 ID : 37135150955

Status : **Answered**

Chosen Option : 4

Q.40

The depth of an ocean is 2000m. The compressibility of water is $45 \times 10^{-11} \text{ m}^2/\text{N}$ and density of water is 10^3 kg/m^3 . At the bottom of the ocean, the fractional compression of water will be ($g = 10 \text{ m/s}^2$)

Ans

 1. 6×10^{-3}

 2. 10^{-3}

 3. 9×10^{-3}

 4. 3×10^{-3}

Question Type : **MCQ**

Question ID : **37135112747**

Option 1 ID : **37135150986**

Option 2 ID : **37135150988**

Option 3 ID : **37135150985**

Option 4 ID : **37135150987**

Status : **Answered**

Chosen Option : **3**

Q.41 An ideal gas occupies a volume 'V' at a pressure 'P' and absolute temperature T.

The mass of each molecule is 'm'. If 'K_B' is the Boltzmann's constant, then the density of gas is given by expression

Ans

 1. $\frac{K_B \cdot T}{P \cdot m}$

 2. $\frac{3K_B \cdot T}{2 P \cdot m}$

 3. $\frac{P \cdot m}{2 K_B \cdot T}$

 4. $\frac{P \cdot m}{K_B \cdot T}$

Question Type : **MCQ**

Question ID : 37135112732

Option 1 ID : 37135150928

Option 2 ID : 37135150927

Option 3 ID : 37135150926

Option 4 ID : 37135150925

Status : **Answered**

Chosen Option : 4

Q.42 A body performs S.H.M. due to force ' F_1 ', with time period 0.8 s. If force is changed to ' F_2 ', it executes S.H.M. with time period 0.6 s. Now both the forces act simultaneously in the same direction on the same body. New periodic time is

Ans

✓ 1. 0.48 s

✗ 2. 0.24 s

✗ 3. 0.12 s

✗ 4. 0.36 s

Question Type : **MCQ**

Question ID : 37135112728

Option 1 ID : 37135150912

Option 2 ID : 37135150910

Option 3 ID : 37135150909

Option 4 ID : 37135150911

Status : **Answered**

Chosen Option : 1

Q.43 A smooth sphere of mass 'M' moving with velocity 'u' directly collides elastically with another sphere of mass 'm' at rest. After collision, their final velocities are V' and V respectively. The value of V is given by

Ans

 1. $\frac{2u}{1 + \frac{M}{m}}$

 2. $\frac{2um}{M}$

 3. $\frac{2u}{1 + \frac{m}{M}}$

 4. $\frac{2uM}{m}$

Question Type : **MCQ**

Question ID : 37135112744

Option 1 ID : 37135150976

Option 2 ID : 37135150974

Option 3 ID : 37135150975

Option 4 ID : 37135150973

Status : **Answered**

Chosen Option : 1

Q.44 What is the stopping potential, when a metal surface with work function 1.2 eV is illuminated with light of energy 3 eV ?

Ans

 1. 2.0 V

 2. 1.2 V

 3. 1.4 V

 4. 1.8 V

Question Type : **MCQ**

Question ID : 37135112702

Option 1 ID : 37135150808

Option 2 ID : 37135150805

Option 3 ID : 37135150806

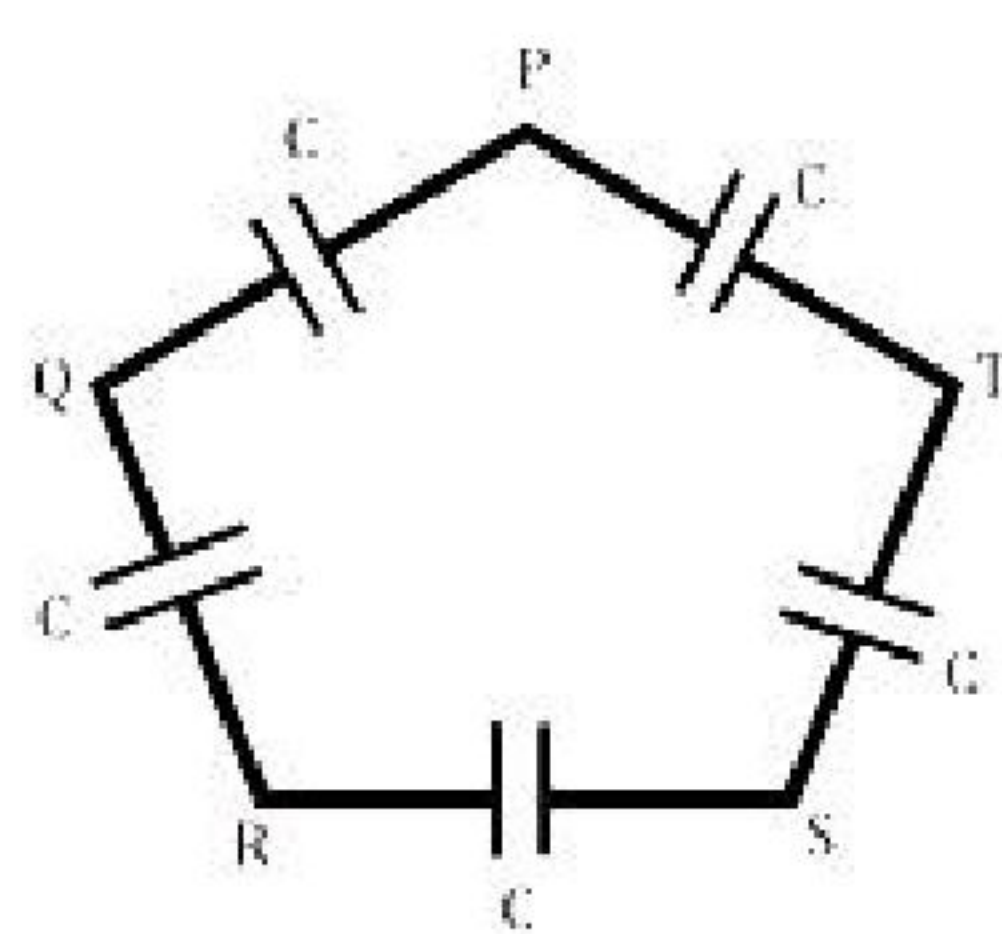
Option 4 ID : 37135150807

Status : **Answered**

Chosen Option : 4

Q.45

Five capacitors each of capacitance 'C' are connected as shown in the figure. The ratio of equivalent capacitance between P and R and the equivalent capacitance between P and Q is



Ans

✓ 1. 2 : 3

✗ 2. 1 : 1

✗ 3. 3 : 1

✗ 4. 5 : 2

Question Type : MCQ

Question ID : 37135112706

Option 1 ID : 37135150823

Option 2 ID : 37135150824

Option 3 ID : 37135150821

Option 4 ID : 37135150822

Status : Answered

Chosen Option : 1

Q.46 When a beam of unpolarised monochromatic light is incident on a plane glass plate at a polarising angle, then which one of the following statements is correct?

Ans  1.

Reflected and refracted rays are completely polarised with their planes of polarisation perpendicular to each other.

 2.

Reflected light is partially polarised but refracted light is plane polarised.

 3.

Reflected and refracted rays are completely polarised with their planes of polarisation parallel to each other.

 4.

Reflected light is plane polarised light but transmitted light is partially polarised.

Question Type : **MCQ**

Question ID : 37135112724

Option 1 ID : 37135150894

Option 2 ID : 37135150896

Option 3 ID : 37135150893

Option 4 ID : 37135150895

Status : **Answered**

Chosen Option : 2

Q.47 A note produces 4 beat/s with a tuning fork of frequency 510 Hz and 6 beat/s with a fork of frequency 512 Hz. The frequency of the note is

Ans

✓^{1.} 506 Hz

✗^{2.} 514 Hz

✗^{3.} 518 Hz

✗^{4.} 510 Hz

Question Type : **MCQ**

Question ID : 37135112749

Option 1 ID : 37135150996

Option 2 ID : 37135150994

Option 3 ID : 37135150993

Option 4 ID : 37135150995

Status : **Answered**

Chosen Option : 1

Q.48

According to Bohr's postulate, the centripetal force (F) necessary for the electron of mass 'm' in a hydrogen atom to revolve in n^{th} circular orbit round the nucleus, as the centre, is given by

[e = charge on electron, h = Planck's constant, ϵ_0 = permittivity of free space]

Ans

 1. $\frac{\pi m^2 e^6}{4 \epsilon_0^3 h^4 n^2}$

 2. $\frac{\pi m^2 e^6}{4 \epsilon_0^3 h^4 n^4}$

 3. $\frac{\pi m^2 e^4}{4 \epsilon_0^2 h^4 n^4}$

 4. $\frac{\pi m e^4}{8 \epsilon_0^2 h^2 n^2}$

Question Type : **MCQ**

Question ID : 37135112745

Option 1 ID : 37135150979

Option 2 ID : 37135150977

Option 3 ID : 37135150978

Option 4 ID : 37135150980

Status : **Answered**

Chosen Option : 4

Q.49 A fix number of spherical drops of a liquid of radius 'r' coalesce to form a large drop of radius 'R' and volume 'V'. If 'T' is the surface tension then energy

Ans  1.

is neither released nor absorbed.

 2. $3 VT \left(\frac{1}{r} - \frac{1}{R} \right)$ is released.

 3. $4 VT \left(\frac{1}{r} - \frac{1}{R} \right)$ is released.

 4. $3 VT \left(\frac{1}{r} - \frac{1}{R} \right)$ is absorbed.

Question Type : **MCQ**

Question ID : 37135112717

Option 1 ID : 37135150868

Option 2 ID : 37135150867

Option 3 ID : 37135150866

Option 4 ID : 37135150865

Status : **Answered**

Chosen Option : 3

Q.50 A microscope will have maximum resolving power , if to illuminate the specimen, it uses light of

Ans

☒ 1. red colour.

☒ 2. green colour.

☒ 3. yellow colour.

☒ 4. blue colour.

Question Type : **MCQ**

Question ID : 37135112736

Option 1 ID : 37135150941

Option 2 ID : 37135150943

Option 3 ID : 37135150942

Option 4 ID : 37135150944

Status : **Answered**

Chosen Option : 1

For Top Chemistry

Q.1 Which of the following metals reacts with dilute H_2SO_4 ?

Ans

☒ 1. Fe

☒ 2. Bi

☒ 3. Cu

☒ 4. Hg

Question Type : **MCQ**

Question ID : 37135112753

Option 1 ID : 37135151010

Option 2 ID : 37135151011

Option 3 ID : 37135151009

Option 4 ID : 37135151012

Status : **Answered**

Chosen Option : 1

Q.2 Which of the following is NOT a tranquilizer?

Ans

 1. Iproniazid

 2. Serotonin

 3. Veronal

 4. Prontosil

Question Type : **MCQ**

Question ID : 37135112776

Option 1 ID : 37135151104

Option 2 ID : 37135151102

Option 3 ID : 37135151101

Option 4 ID : 37135151103

Status : **Answered**

Chosen Option : 3

Q.3 Which of the following elements is refined by zone refining?

Ans

 1. Gallium

 2. Bismuth

 3. Copper

 4. Zinc

Question Type : **MCQ**

Question ID : 37135112769

Option 1 ID : 37135151073

Option 2 ID : 37135151076

Option 3 ID : 37135151074

Option 4 ID : 37135151075

Status : **Answered**

Chosen Option : 1

Q.4 Which of the following equations shows the relationship between heat of reaction at constant pressure and heat of reaction at constant volume if the temperature is not constant ?

Ans

 1. $\Delta H - \Delta n = \Delta URT$

 2. $\Delta H - \Delta U = \Delta nRT$

 3. $\Delta H = \Delta nRT$

 4. $\Delta H = \Delta U - RT$

Question Type : **MCQ**

Question ID : 37135112794

Option 1 ID : 37135151176

Option 2 ID : 37135151173

Option 3 ID : 37135151174

Option 4 ID : 37135151175

Status : **Answered**

Chosen Option : 2

Q.5 The rate of first order reaction $A \rightarrow B$ is $6.3 \times 10^{-6} \text{ Ms}^{-1}$, if $[A] = 0.3 \text{ M}$, what is the rate constant of the reaction?

Ans

 1. $2.1 \times 10^{-5} \text{ s}^{-1}$

 2. $1.2 \times 10^{-5} \text{ s}^{-1}$

 3. $1.3 \times 10^{-5} \text{ s}^{-1}$

 4. $1.6 \times 10^{-5} \text{ s}^{-1}$

Question Type : **MCQ**

Question ID : 37135112781

Option 1 ID : 37135151123

Option 2 ID : 37135151121

Option 3 ID : 37135151122

Option 4 ID : 37135151124

Status : **Answered**

Chosen Option : 1

Q.6 Which among the following oxides of nitrogen, the nitrogen atom contains one unpaired electron?

Ans

 1. N_2O_4

 2. NO_2

 3. N_2O_5

 4. N_2O_3

Question Type : **MCQ**

Question ID : 37135112763

Option 1 ID : 37135151051

Option 2 ID : 37135151049

Option 3 ID : 37135151052

Option 4 ID : 37135151050

Status : **Answered**

Chosen Option : 2

Q.7 Which among the following compounds is obtained when benzene is treated with CO and HCl in presence of catalyst anhydrous AlCl_3 and Cu_2Cl_2 under high pressure?

Ans

 1. Toluene

 2. Benzoic acid

 3. Benzaldehyde

 4. Acetophenone

Question Type : **MCQ**

Question ID : 37135112796

Option 1 ID : 37135151184

Option 2 ID : 37135151183

Option 3 ID : 37135151181

Option 4 ID : 37135151182

Status : **Answered**

Chosen Option : 2

Q.8 Which among the following is a first oxidation product of butan-2-ol ?

Ans

- ☒ 1. Butanal
- ☒ 2. Butanoic acid
- ☒ 3. Propanoic acid and CO_2
- ☒ 4. Butan-2-one

Question Type : **MCQ**

Question ID : 37135112786

Option 1 ID : 37135151141

Option 2 ID : 37135151142

Option 3 ID : 37135151144

Option 4 ID : 37135151143

Status : **Answered**

Chosen Option : 4

Q.9 Which among the following polymers is an example of addition polymer?

Ans

- ☒ 1. Dacron
- ☒ 2. Ureaformaldehyde polymer
- ☒ 3. Nylon-6
- ☒ 4. Polythene

Question Type : **MCQ**

Question ID : 37135112790

Option 1 ID : 37135151159

Option 2 ID : 37135151160

Option 3 ID : 37135151158

Option 4 ID : 37135151157

Status : **Answered**

Chosen Option : 1

Q.10 Which of the following compounds is obtained when $\text{C}_2\text{H}_5\text{NH}_2$ is treated with excess $(\text{CH}_3\text{CO})_2\text{O}$ in presence of pyridine ?

Ans



Question Type : **MCQ**

Question ID : 37135112779

Option 1 ID : 37135151116

Option 2 ID : 37135151114

Option 3 ID : 37135151113

Option 4 ID : 37135151115

Status : **Answered**

Chosen Option : 1

Q.11 Dumas method is used for estimation of

Ans

✓ 1. nitrogen

✗ 2. sulphur

✗ 3. oxygen

✗ 4. carbon

Question Type : **MCQ**

Question ID : 37135112762

Option 1 ID : 37135151046

Option 2 ID : 37135151048

Option 3 ID : 37135151047

Option 4 ID : 37135151045

Status : **Answered**

Chosen Option : 1

Q.12 Which of the following is NOT correct in hybridisation?

Ans  1.

There should be very little difference in energy of involving orbitals

 2.

The shape of hybrid orbitals is same as that of atomic orbitals

 3.

The number of hybrid orbitals formed is equal to number of atomic orbitals involved in hybridisation

 4.

Orbitals of an atom only undergo hybridisation

Question Type : **MCQ**

Question ID : 37135112791

Option 1 ID : 37135151162

Option 2 ID : 37135151164

Option 3 ID : 37135151163

Option 4 ID : 37135151161

Status : **Answered**

Chosen Option : 2

Q.13 An element crystallises in bcc structure. The number of unit cells of an element in 4 g of it is (given at mass=40)

Ans

 1.
$$\frac{0.1 \times N_A}{2}$$

 2. $2 \times 0.1 N_A$

 3. $0.1 N_A$

 4. $2 \times N_A$

Question Type : **MCQ**

Question ID : 37135112788

Option 1 ID : 37135151151

Option 2 ID : 37135151150

Option 3 ID : 37135151149

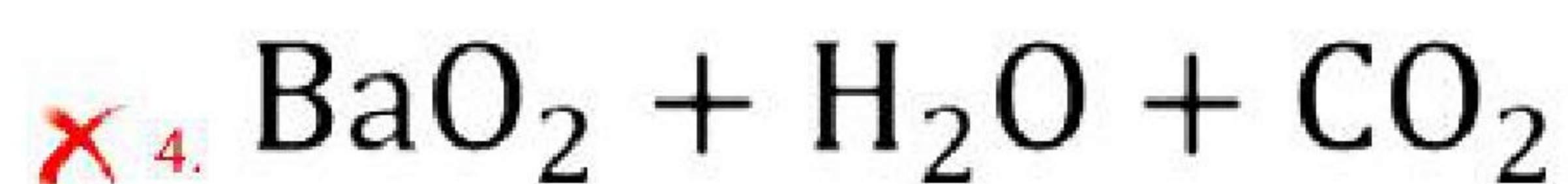
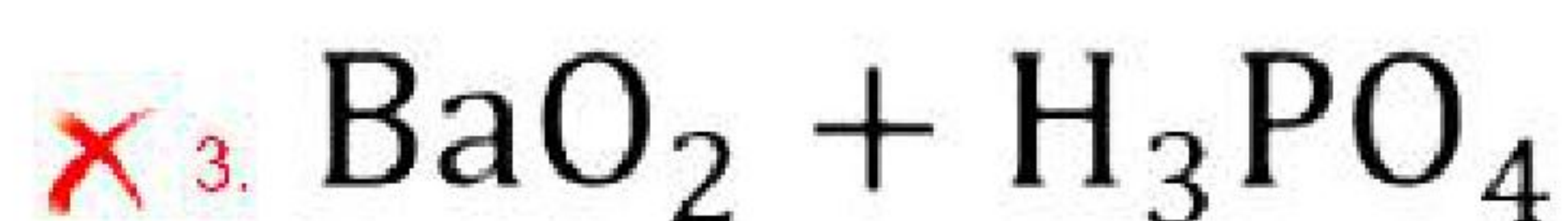
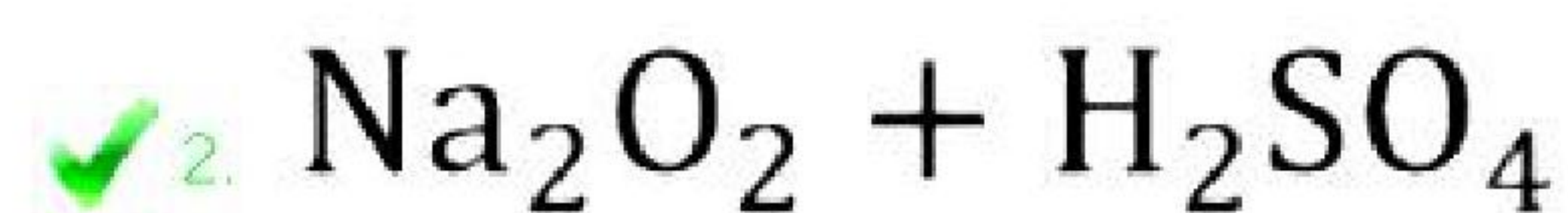
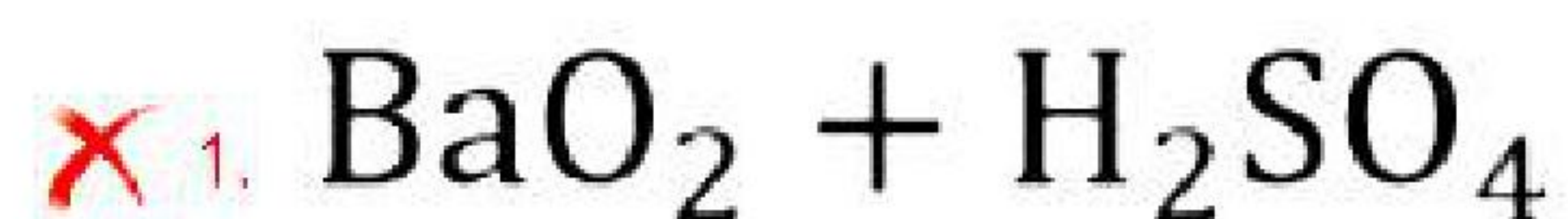
Option 4 ID : 37135151152

Status : **Answered**

Chosen Option : 2

Q.14 In Merck's method, H_2O_2 is obtained from

Ans



Question Type : **MCQ**

Question ID : 37135112782

Option 1 ID : 37135151125

Option 2 ID : 37135151126

Option 3 ID : 37135151128

Option 4 ID : 37135151127

Status : **Answered**

Chosen Option : 2

Q.15 What is the melting point of zinc?

Ans

☒ 1. 473 K

☒ 2. 1193 K

☒ 3. 423 K

☒ 4. 692 K

Question Type : **MCQ**

Question ID : 37135112780

Option 1 ID : 37135151119

Option 2 ID : 37135151117

Option 3 ID : 37135151120

Option 4 ID : 37135151118

Status : **Answered**

Chosen Option : 4

Q.16 van't Hoff factor (i) for centimolal solution of $K_3[Fe(CN)_6]$ is 3.333. What is its percentage dissociation?

Ans

 1. 80 %

 2. 70 %

 3. 33.33 %

 4. 77.7 %

Question Type : **MCQ**

Question ID : 37135112756

Option 1 ID : 37135151024

Option 2 ID : 37135151022

Option 3 ID : 37135151021

Option 4 ID : 37135151023

Status : **Answered**

Chosen Option : 4

Q.17 The H-H bond energy is 430 kJ mol^{-1} and Cl-Cl bond energy is 240 kJ mol^{-1} . $\Delta_f H$ for HCl is -90 kJ. Then H-Cl bond energy is

Ans

 1. 360 kJ mol^{-1}

 2. 213 kJ mol^{-1}

 3. 180 kJ mol^{-1}

 4. 425 kJ mol^{-1}

Question Type : **MCQ**

Question ID : 37135112797

Option 1 ID : 37135151186

Option 2 ID : 37135151187

Option 3 ID : 37135151185

Option 4 ID : 37135151188

Status : **Answered**

Chosen Option : 4

Q.18 Which of the following compounds is used to avoid oxidation in food?

Ans

- ☒ 1. O- hydroxy benzoic acid
- ☒ 2. Acetyl salicylic acid
- ☒ 3. Ethyl Salicylate
- ☒ 4. Butylated Hydroxy Anisole

Question Type : **MCQ**

Question ID : 37135112784

Option 1 ID : 37135151133

Option 2 ID : 37135151134

Option 3 ID : 37135151136

Option 4 ID : 37135151135

Status : **Answered**

Chosen Option : 3

Q.19 The volume of 400 cm³ chlorine gas at 400 mm of Hg is decreased to 200 cm³ at constant temperature. What is the new pressure of gas?

Ans

- ☒ 1. 800 mm of Hg
- ☒ 2. 200 mm of Hg
- ☒ 3. 1600 mm of Hg
- ☒ 4. 600 mm of Hg

Question Type : **MCQ**

Question ID : 37135112764

Option 1 ID : 37135151055

Option 2 ID : 37135151053

Option 3 ID : 37135151056

Option 4 ID : 37135151054

Status : **Answered**

Chosen Option : 1

Q.20 Identify the polymer from following, that contains amide linkage

Ans

 1. Terylene

 2. PHBV

 3. Nylon-6,6

 4. Dextron

Question Type : **MCQ**

Question ID : 37135112800

Option 1 ID : 37135151197

Option 2 ID : 37135151200

Option 3 ID : 37135151198

Option 4 ID : 37135151199

Status : **Answered**

Chosen Option : 3

Q.21 Which of the following solution will have highest freezing point depression?

Ans

 1. 1 M glucose

 2. 1 M sucrose

 3. 1 M urea

 4. 1 M KCl

Question Type : **MCQ**

Question ID : 37135112768

Option 1 ID : 37135151070

Option 2 ID : 37135151072

Option 3 ID : 37135151069

Option 4 ID : 37135151071

Status : **Answered**

Chosen Option : 3

Q.22 What is the bond length of C – H bond in alkanes?

Ans

☒ 1. 154 pm

☒ 2. 120 pm

☒ 3. 133 pm

☒ 4. 112 pm

Question Type : **MCQ**

Question ID : 37135112751

Option 1 ID : 37135151001

Option 2 ID : 37135151004

Option 3 ID : 37135151003

Option 4 ID : 37135151002

Status : **Answered**

Chosen Option : 1

Q.23

What is molecular formula of allyl bromide ?

Ans

☒ 1. C_2H_4Br

☒ 2. C_2H_3Br

☒ 3. C_3H_5Br

☒ 4. C_3H_6Br

Question Type : **MCQ**

Question ID : 37135112766

Option 1 ID : 37135151062

Option 2 ID : 37135151061

Option 3 ID : 37135151063

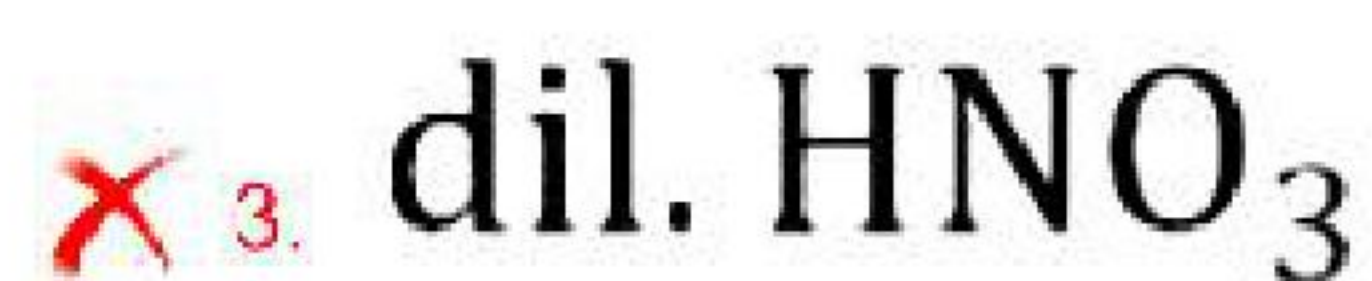
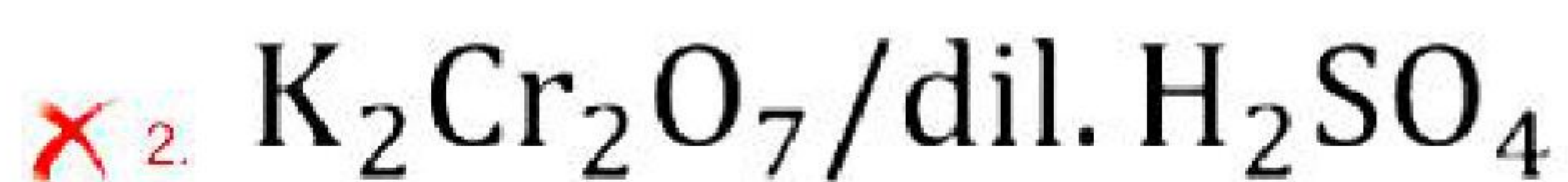
Option 4 ID : 37135151064

Status : **Answered**

Chosen Option : 3

Q.24 Which of following reagents is used to avoid further oxidation of aldehydes?

Ans



Question Type : MCQ

Question ID : 37135112757

Option 1 ID : 37135151026

Option 2 ID : 37135151025

Option 3 ID : 37135151027

Option 4 ID : 37135151028

Status : Answered

Chosen Option : 1

Q.25 Copper crystallises as face centered cubic lattice, with edge length of unit cell 361 pm. Calculate the radius of copper atom.

Ans

✗ 1. $108 \cdot 6 \text{ pm}$

✓ 2. $127 \cdot 65 \text{ pm}$

✗ 3. $181 \cdot 6 \text{ pm}$

✗ 4. $157 \cdot 6 \text{ pm}$

Question Type : MCQ

Question ID : 37135112798

Option 1 ID : 37135151189

Option 2 ID : 37135151190

Option 3 ID : 37135151192

Option 4 ID : 37135151191

Status : Answered

Chosen Option : 1

Q.26 Which of the following statements is NOT true for glyceraldehyde?

Ans

☒ 1. It is a sugar molecule.

☒ 2. It is optically active.

☒ 3.

It contains two asymmetric carbon atoms.

☒ 4.

It has carbonyl and hydroxyl group.

Question Type : **MCQ**

Question ID : 37135112773

Option 1 ID : 37135151092

Option 2 ID : 37135151090

Option 3 ID : 37135151091

Option 4 ID : 37135151089

Status : **Answered**

Chosen Option : 3

Q.27 Aniline reacts with bromine water at room temperature to give

Ans

☒ 1. 3- Bromoaniline

☒ 2. 2- Bromoaniline

☒ 3. 4- Bromoaniline

☒ 4. 2,4,6 – tribromoaniline

Question Type : **MCQ**

Question ID : 37135112758

Option 1 ID : 37135151030

Option 2 ID : 37135151029

Option 3 ID : 37135151031

Option 4 ID : 37135151032

Status : **Answered**

Chosen Option : 1

Q.28 Which among the following electrical properties has SI unit siemens per meter,

Ans

☐ 1. Conductance

☒ 2. Conductivity

☐ 3. Resistance

☐ 4. Resistivity

Question Type : MCQ

Question ID : 37135112765

Option 1 ID : 37135151059

Option 2 ID : 37135151060

Option 3 ID : 37135151057

Option 4 ID : 37135151058

Status : Answered

Chosen Option : 1

Q.29 Identify the product 'B' in following reaction.



Ans

☐ 1. Propanal

☐ 2. Propanone

☐ 3. Isopropyl magnesium chloride

☒ 4. Pinacol

Question Type : MCQ

Question ID : 37135112799

Option 1 ID : 37135151195

Option 2 ID : 37135151194

Option 3 ID : 37135151193

Option 4 ID : 37135151196

Status : Answered

Chosen Option : 2

Q.30 Which of the following is the strongest reducing agent?

Ans

☒ 1. Na

☒ 2. Mg

☒ 3. Li

☒ 4. Ca

Question Type : **MCQ**

Question ID : 37135112774

Option 1 ID : 37135151095

Option 2 ID : 37135151094

Option 3 ID : 37135151096

Option 4 ID : 37135151093

Status : **Answered**

Chosen Option : 3

Q.31 Which of the following elements has six unpaired electrons in observed electronic configuration?

Ans

☒ 1. Fe (Z=26)

☒ 2. Cr (Z=24)

☒ 3. Cu (Z=29)

☒ 4. Mn (Z=25)

Question Type : **MCQ**

Question ID : 37135112770

Option 1 ID : 37135151080

Option 2 ID : 37135151079

Option 3 ID : 37135151078

Option 4 ID : 37135151077

Status : **Answered**

Chosen Option : 2

Q.32 Aluminium crystallises in face centred cubic structure, having atomic radius 125 pm. The edge length of the unit cell of aluminium is

Ans

☒ 1. 253.5 pm

☒ 2. 353.5 pm

☒ 3. 465.0 pm

☒ 4. 250.0 pm

Question Type : **MCQ**

Question ID : 37135112759

Option 1 ID : 37135151036

Option 2 ID : 37135151033

Option 3 ID : 37135151034

Option 4 ID : 37135151035

Status : **Answered**

Chosen Option : 2

Q.33 Which of the following statements is true for pyran?

Ans

☒ 1.

It is saturated aliphatic compound

☒ 2. It is homocyclic compound

☒ 3.

It is heterocyclic with oxygen atom in ring

☒ 4.

Molecular formula of pyran is C_5H_5S

Question Type : **MCQ**

Question ID : 37135112760

Option 1 ID : 37135151037

Option 2 ID : 37135151038

Option 3 ID : 37135151039

Option 4 ID : 37135151040

Status : **Answered**

Chosen Option : 1

Q.34 Which of the following is NOT found in hybridization?

Ans

☒ 1. Formation of σ bonds

☒ 2.

Mixing and recasting of atomic orbitals

☒ 3. Excitation of electrons

☒ 4. Loss and gain of electron

Question Type : **MCQ**

Question ID : 37135112792

Option 1 ID : 37135151168

Option 2 ID : 37135151166

Option 3 ID : 37135151165

Option 4 ID : 37135151167

Status : **Answered**

Chosen Option : 4

Q.35 When slaked lime is passed through excess CO_2 , it forms

Ans

☒ 1. CaCO_3

☒ 2. CaCl_2

☒ 3. $\text{Ca}(\text{HCO}_3)_2$

☒ 4. Ca_2HCO_3

Question Type : **MCQ**

Question ID : 37135112771

Option 1 ID : 37135151081

Option 2 ID : 37135151082

Option 3 ID : 37135151083

Option 4 ID : 37135151084

Status : **Answered**

Chosen Option : 3

Q.36 What is the number of moles of silver chloride precipitated when excess of aqueous silver nitrate is treated with $[\text{Co}(\text{NH}_3)_4\text{Cl}_2]\text{Cl}$?

Ans

☒ 1. 1.0 mole

☐ 2. 3.0 mole

☐ 3. 2.0 mole

☐ 4. 4.0 mole

Question Type : **MCQ**

Question ID : 37135112793

Option 1 ID : 37135151172

Option 2 ID : 37135151170

Option 3 ID : 37135151171

Option 4 ID : 37135151169

Status : **Answered**

Chosen Option : 1

Q.37 What is oxidation state of iron in potassium ferrate?

Ans

☐ 1. +3

☐ 2. +4

☒ 3. +6

☐ 4. +2

Question Type : **MCQ**

Question ID : 37135112783

Option 1 ID : 37135151130

Option 2 ID : 37135151131

Option 3 ID : 37135151132

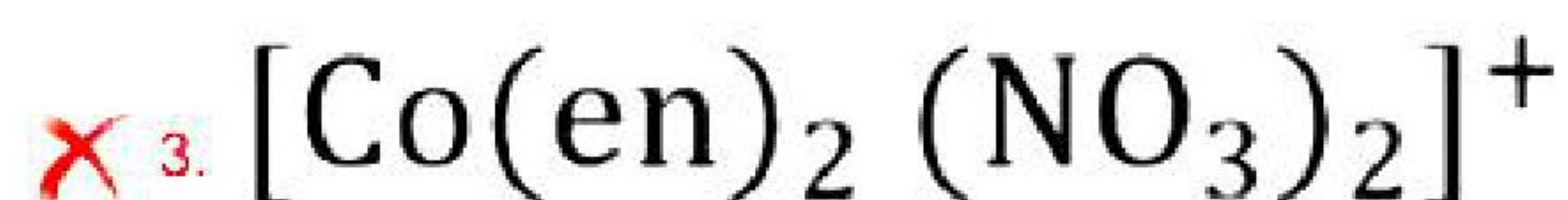
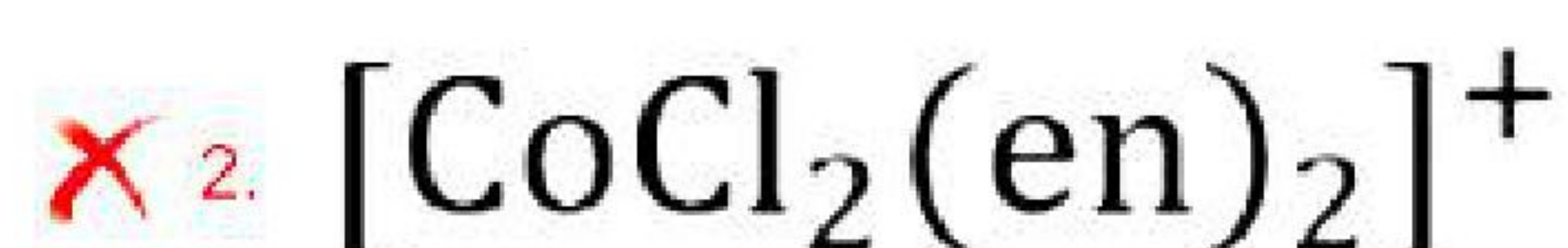
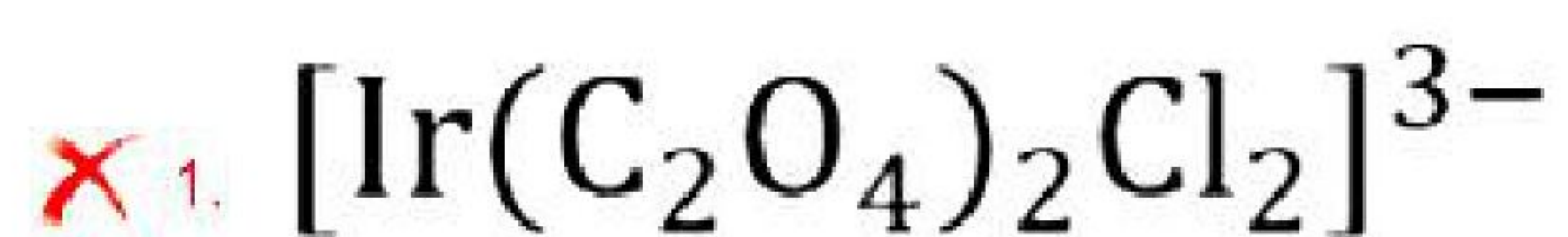
Option 4 ID : 37135151129

Status : **Answered**

Chosen Option : 1

Q.38 Which among the following is NOT an octahedral complex?

Ans



Question Type : **MCQ**

Question ID : 37135112785

Option 1 ID : 37135151139

Option 2 ID : 37135151137

Option 3 ID : 37135151138

Option 4 ID : 37135151140

Status : **Answered**

Chosen Option : 4

Q.39 What is the number of hydroxyl groups present in lactic acid?

Ans

 1. Zero

 2. Three

 3. Two

 4. One

Question Type : **MCQ**

Question ID : 37135112775

Option 1 ID : 37135151097

Option 2 ID : 37135151100

Option 3 ID : 37135151099

Option 4 ID : 37135151098

Status : **Answered**

Chosen Option : 2

Q.40 Which of the following alcohols is NOT having $C_{sp^3} - OH$ bond ?

Ans

 1. Phenylmethanol

 2. 2 - Methyl propan - 2 - ol

 3. Propan - 2 - ol

 4. Vinyl alcohol

Question Type : **MCQ**

Question ID : 37135112767

Option 1 ID : 37135151067

Option 2 ID : 37135151066

Option 3 ID : 37135151065

Option 4 ID : 37135151068

Status : **Answered**

Chosen Option : 4

Q.41 0.0210 M solution of N_2O_5 is allowed to decompose at $43^\circ C$. How long will it take to reduce to 0.0150M ? (Given $k = 6.0 \times 10^{-4} \text{ sec}^{-1}$)

Ans

 1. 5600 sec

 2. 360.0 sec

 3. 560.0 sec

 4. 3364 sec

Question Type : **MCQ**

Question ID : 37135112761

Option 1 ID : 37135151042

Option 2 ID : 37135151043

Option 3 ID : 37135151041

Option 4 ID : 37135151044

Status : **Answered**

Chosen Option : 4

Q.42 How many tertiary carbon atoms and primary carbon atoms respectively are present in 2-iodo-3, 3- dimethyl pentane?

Ans

☐ 1. 2, 4

☒ 2. 0, 4

☐ 3. 2, 3

☐ 4. 1, 3

Question Type : MCQ

Question ID : 37135112754

Option 1 ID : 37135151016

Option 2 ID : 37135151015

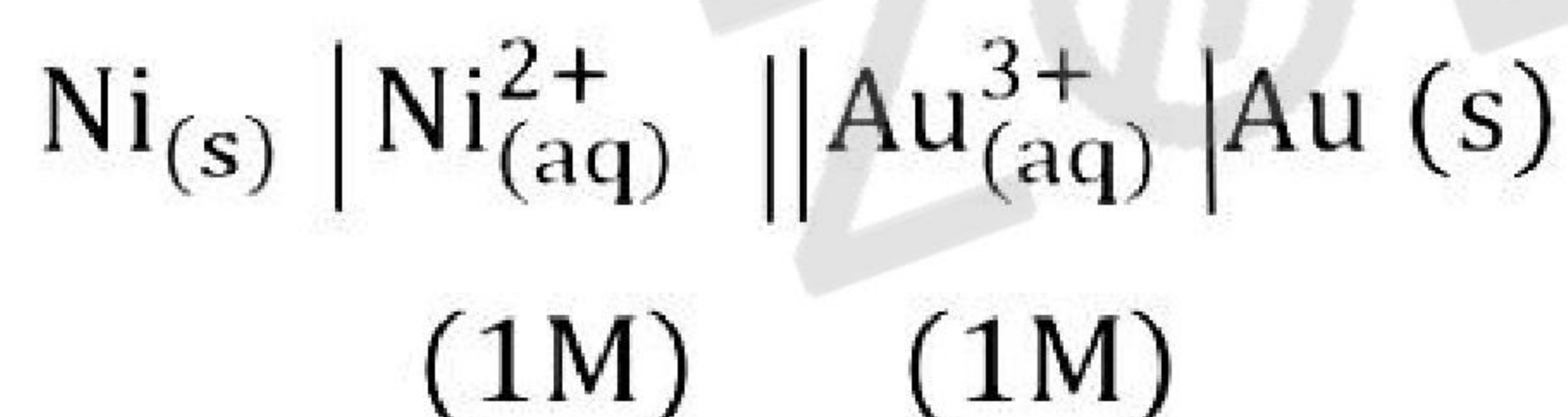
Option 3 ID : 37135151014

Option 4 ID : 37135151013

Status : Answered

Chosen Option : 2

Q.43 What is the standard emf of following cell?



if $E_{\text{Ni}}^{\circ} = -0.25\text{V}$, $E_{\text{Au}}^{\circ} = 1.50\text{V}$

Ans

☐ 1. -1.25V

☒ 2. 1.75V

☐ 3. 1.25V

☐ 4. -1.75V

Question Type : MCQ

Question ID : 37135112755

Option 1 ID : 37135151019

Option 2 ID : 37135151018

Option 3 ID : 37135151017

Option 4 ID : 37135151020

Status : Answered

Chosen Option : 2

Q.44 What is the quantity of gold chloride obtained when 4.5 g gold and 2.1 g chlorine when sealed in a tube and heated at 150° C? (At.masses of Au = 196.97, Cl = 35.45 u)

Ans

☒ 1. 4.5 g

☒ 2. 4.8 g

☒ 3. 6.07 g

☒ 4. 20.7 g

Question Type : **MCQ**

Question ID : 37135112752

Option 1 ID : 37135151007

Option 2 ID : 37135151008

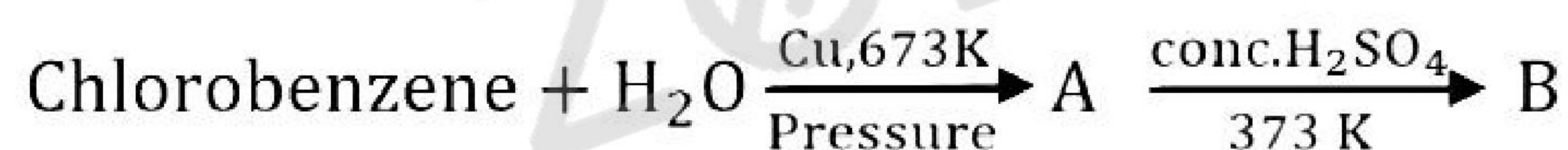
Option 3 ID : 37135151005

Option 4 ID : 37135151006

Status : **Answered**

Chosen Option : 3

Q.45 Identify the product B in following conversion.



Ans

☒ 1.

4 – Hydroxybenzene sulphonic acid

☒ 2. Benzene sulphonic acid

☒ 3.

3 – Hydroxybenzene sulphonic acid

☒ 4.

2 – Hydroxybenzene sulphonic acid

Question Type : **MCQ**

Question ID : 37135112777

Option 1 ID : 37135151108

Option 2 ID : 37135151105

Option 3 ID : 37135151107

Option 4 ID : 37135151106

Status : **Answered**

Chosen Option : 3

Q.46 If $\text{C}_{(s)} + \text{O}_{2(g)} \rightarrow \text{CO}_{2(g)}$ $\Delta H = -396 \text{ kJ mol}^{-1}$, calculate heat liberated during formation of 0.154 kg of CO_2 ?

Ans

✓ 1. 1386.0 kJ

✗ 2. 346.5 kJ

✗ 3. 693.0 kJ

✗ 4. 1039.5 kJ

Question Type : **MCQ**

Question ID : 37135112787

Option 1 ID : 37135151148

Option 2 ID : 37135151145

Option 3 ID : 37135151146

Option 4 ID : 37135151147

Status : **Answered**

Chosen Option : 1

Q.47 What products are expected from the disproportionation reaction of orthophosphorus acid?

Ans

✗ 1. $\text{H}_3\text{PO}_3 + \text{PH}_3$

✓ 2. $\text{H}_3\text{PO}_4 + \text{PH}_3$

✗ 3. $\text{PH}_3 + \text{P}_2\text{O}_5$

✗ 4. $\text{H}_3\text{PO}_3 + \text{P}_2\text{O}_5$

Question Type : **MCQ**

Question ID : 37135112772

Option 1 ID : 37135151088

Option 2 ID : 37135151085

Option 3 ID : 37135151087

Option 4 ID : 37135151086

Status : **Answered**

Chosen Option : 2

Q.48 6.022×10^{20} molecules of urea are present in 100 mL of its solution. The concentration of solution is

Ans

 1. 0.10 M

 2. 0.02 M

 3. 0.01 M

 4. 0.001 M

Question Type : **MCQ**

Question ID : 37135112778

Option 1 ID : 37135151112

Option 2 ID : 37135151111

Option 3 ID : 37135151110

Option 4 ID : 37135151109

Status : **Answered**

Chosen Option : 3

Q.49 Pumice stone is an example of

Ans

 1. Solid sol

 2. Emulsion

 3. Aerosol

 4. Solid foam

Question Type : **MCQ**

Question ID : 37135112795

Option 1 ID : 37135151179

Option 2 ID : 37135151177

Option 3 ID : 37135151178

Option 4 ID : 37135151180

Status : **Answered**

Chosen Option : 4

Q.50 Which of the following nitroalkane does not react with nitrous acid?

Ans

✓ 1. 2- Methyl – 2 – nitropropane

✗ 2. 2- Nitropropane

✗ 3. Nitroethane

✗ 4. 1- Nitropropane

Question Type : **MCQ**

Question ID : 37135112789

Option 1 ID : 37135151156

Option 2 ID : 37135151155

Option 3 ID : 37135151153

Option 4 ID : 37135151154

Status : **Answered**

Chosen Option : 1

Section: Biology

Q.1 Match the Column- I with Column-II and select the correct option.

Column – I	Column – II
A. Fibrinogen	i) contractions in female reproductive tract
B. Fructose	ii) prevent fungal infection
C. Prostaglandins	iii) coagulation of semen
D. <i>Lactobacilli</i> in vagina	iv) source of energy

Ans  1.

A- (ii), B- (iii), C-(iv), D-(i)

 2.

A- (i), B- (ii), C-(iii), D-(iv)

 3.

A- (iii), B- (iv), C-(i), D-(ii)

 4.

A- (iv), B- (i), C-(ii), D-(iii)

Question Type : **MCQ**

Question ID : 37135112879

Option 1 ID : 37135151514

Option 2 ID : 37135151513

Option 3 ID : 37135151515

Option 4 ID : 37135151516

Status : **Answered**

Chosen Option : 1

Q.2 Which one of the following molecule is NOT needed during translation in protein synthesis?

Ans

 1. m- RNA

 2. DNA

 3. r- RNA

 4. t- RNA

Question Type : **MCQ**

Question ID : 37135112813

Option 1 ID : 37135151250

Option 2 ID : 37135151249

Option 3 ID : 37135151251

Option 4 ID : 37135151252

Status : **Answered**

Chosen Option : 2

Q.3 The process of non-cyclic photophosphorylation occurs in_____.

Ans

 1.

aerobic conditions, high CO₂ conc. and low light intensity.

 2.

anaerobic conditions, high CO₂ conc. and enough light intensity.

 3.

aerobic conditions, high CO₂ conc. and enough light intensity.

 4.

aerobic conditions, low CO₂ conc. and enough light intensity.

Question Type : **MCQ**

Question ID : 37135112817

Option 1 ID : 37135151267

Option 2 ID : 37135151265

Option 3 ID : 37135151268

Option 4 ID : 37135151266

Status : **Answered**

Chosen Option : 3

Q.4 Renin is secreted by the cells of _____.

Ans

- ✓ 1. JG apparatus
- ✗ 2. collecting tubule
- ✗ 3. collecting duct
- ✗ 4. PCT

Question Type : **MCQ**

Question ID : 37135112892

Option 1 ID : 37135151568

Option 2 ID : 37135151567

Option 3 ID : 37135151566

Option 4 ID : 37135151565

Status : **Answered**

Chosen Option : 4

Q.5 A molecule of chlorophyll which acts as reaction centre in pigment system – II is _____.

Ans

- ✗ 1. P – 650
- ✗ 2. P – 700
- ✗ 3. P – 673
- ✓ 4. P – 680

Question Type : **MCQ**

Question ID : 37135112840

Option 1 ID : 37135151360

Option 2 ID : 37135151357

Option 3 ID : 37135151359

Option 4 ID : 37135151358

Status : **Answered**

Chosen Option : 1

Q.6 How many base pairs are present in a segment of m-RNA having 100 nucleotides?

Ans

 1. 100

 2. 50

 3. 00

 4. 25

Question Type : **MCQ**

Question ID : 37135112806

Option 1 ID : 37135151221

Option 2 ID : 37135151222

Option 3 ID : 37135151224

Option 4 ID : 37135151223

Status : **Answered**

Chosen Option : 2

Q.7 Following are prokaryotic cells EXCEPT_____.

Ans

 1. *Anabaena*

 2. *Streptococcus*

 3. *Nostoc*

 4. *Paramecium*

Question Type : **MCQ**

Question ID : 37135112876

Option 1 ID : 37135151502

Option 2 ID : 37135151501

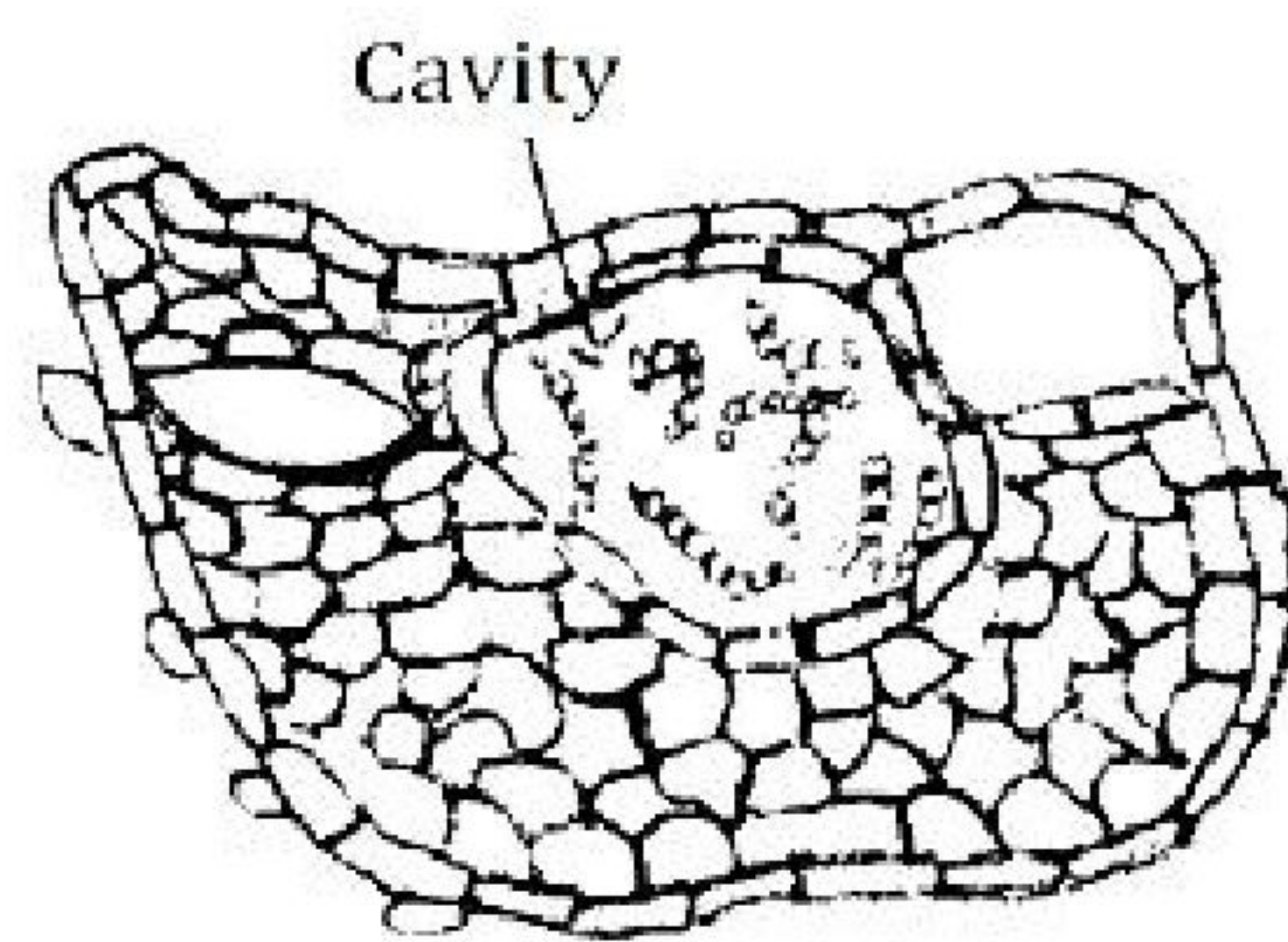
Option 3 ID : 37135151503

Option 4 ID : 37135151504

Status : **Answered**

Chosen Option : 3

Q.8 The figure given below is T.S. of *Azolla* leaf, the filaments present in the cavity of the leaf are of _____.



T.S of *Azolla* leaf

Ans

☒ 1. *Nostoc*

☒ 2. *Tolypothrix*

☒ 3. *Anabaena*

☒ 4. *Oscillatoria*

Question Type : **MCQ**

Question ID : 37135112843

Option 1 ID : 37135151370

Option 2 ID : 37135151372

Option 3 ID : 37135151371

Option 4 ID : 37135151369

Status : **Answered**

Chosen Option : 4

Q.9 The average life span of blood platelets is ____ days.

Ans

☒ 1. 3 – 4

☒ 2. 1 – 3

☒ 3. 11 – 15

☒ 4. 5 – 10

Question Type : **MCQ**

Question ID : 37135112853

Option 1 ID : 37135151411

Option 2 ID : 37135151412

Option 3 ID : 37135151409

Option 4 ID : 37135151410

Status : **Answered**

Chosen Option : 1

Q.10 What will be the genotype of a carrier individual who shows sickle cell anaemic trait?

Ans

☒ 1. Hb^B Hb^B

☒ 2. Hb^A Hb^S

☒ 3. Hb^S Hb^S

☒ 4. Hb^A Hb^A

Question Type : **MCQ**

Question ID : 37135112838

Option 1 ID : 37135151352

Option 2 ID : 37135151351

Option 3 ID : 37135151350

Option 4 ID : 37135151349

Status : **Answered**

Chosen Option : 2

Q.11 Specialized cells that are sensitive to vibration, pain and tension are called_____.

Ans

- ✓ 1. Proprioceptors
- ✗ 2. Baroreceptors
- ✗ 3. statoacoustic receptors
- ✗ 4. frigidoreceptors

Question Type : **MCQ**

Question ID : 37135112870

Option 1 ID : 37135151480

Option 2 ID : 37135151479

Option 3 ID : 37135151478

Option 4 ID : 37135151477

Status : **Answered**

Chosen Option : 3

Q.12 Fructose is contributed to the semen by_____.

Ans

- ✓ 1. seminal vesicles
- ✗ 2. testis
- ✗ 3. prostate gland
- ✗ 4. Cowper's gland

Question Type : **MCQ**

Question ID : 37135112852

Option 1 ID : 37135151406

Option 2 ID : 37135151405

Option 3 ID : 37135151407

Option 4 ID : 37135151408

Status : **Answered**

Chosen Option : 4

Q.13 What is true about C₄ plants _____.

Ans

✓ 1.

C₃ pathway reactions take place in bundle sheath chloroplast and C₄ pathway reactions in mesophyll chloroplast.

✗ 2.

Both reactions occur in mesophyll chloroplast.

✗ 3.

Both reactions occur in bundle sheath chloroplast.

✗ 4.

C₃ pathway reaction take place in mesophyll chloroplast and C₄ pathway reactions in bundle sheath chloroplast.

Question Type : MCQ

Question ID : 37135112823

Option 1 ID : 37135151289

Option 2 ID : 37135151291

Option 3 ID : 37135151292

Option 4 ID : 37135151290

Status : Answered

Chosen Option : 1

Q.14 Proteins attached with a prosthetic group are called _____ proteins.

Ans

✗ 1. structural

✗ 2. simple

✗ 3. contractile

✓ 4. conjugated

Question Type : MCQ

Question ID : 37135112805

Option 1 ID : 37135151217

Option 2 ID : 37135151220

Option 3 ID : 37135151219

Option 4 ID : 37135151218

Status : Answered

Chosen Option : 2

Q.15 The shortest phase of cardiac cycle is _____.

Ans

 1. joint cardiac diastole

 2. ventricular systole

 3. atrial diastole

 4. atrial systole

Question Type : **MCQ**

Question ID : 37135112866

Option 1 ID : 37135151464

Option 2 ID : 37135151463

Option 3 ID : 37135151461

Option 4 ID : 37135151462

Status : **Answered**

Chosen Option : 3

Q.16

Match the Column - I with Column-II and select the correct option

Column- I

Column- II

a) Female banded Krait

i) Humulin

b) Pancreas from dog

ii) DNA sample

c) Hair root of human

iii) Insulin extracted and purified

d) *E. coli*

iv) DNA probe

Ans

 1.

a- i,

b-ii,

c-iv,

d-iii

 2.

a- ii,

b-i,

c-iii,

d-iv

 3.

a- iii,

b-iv,

c-ii,

d-i

 4.

a- iv,

b-iii,

c-ii,

d-i

Question Type : **MCQ**

Question ID : 37135112890

Option 1 ID : 37135151560

Option 2 ID : 37135151557

Option 3 ID : 37135151558

Option 4 ID : 37135151559

Status : **Answered**

Chosen Option : 4

Q.17 Which one of the following is NOT characteristics of plasmid?

Ans  1.

Help bacteria survive and reproduce under unfavourable conditions

 2. Double stranded

 3. Self-replicating

 4.

Heredity material of bacterium

Question Type : **MCQ**

Question ID : 37135112804

Option 1 ID : 37135151216

Option 2 ID : 37135151215

Option 3 ID : 37135151214

Option 4 ID : 37135151213

Status : **Answered**

Chosen Option : 1

Q.18 The subaerial branch which creeps horizontally on soil and helps in vegetative propagation is called_____.

Ans  1. runner

 2. offset

 3. stolon

 4. sucker

Question Type : **MCQ**

Question ID : 37135112836

Option 1 ID : 37135151342

Option 2 ID : 37135151341

Option 3 ID : 37135151343

Option 4 ID : 37135151344

Status : **Answered**

Chosen Option : 2

Q.19 Who postulated three laws that are known as Mendel's Law of Inheritance based on Mendel's findings?

Ans

- ☒ 1. Hugo De Vries
- ☐ 2. Karl Correns
- ☐ 3. Johannsen
- ☐ 4. Erich Tschermak

Question Type : **MCQ**
Question ID : 37135112848
Option 1 ID : 37135151389
Option 2 ID : 37135151391
Option 3 ID : 37135151392
Option 4 ID : 37135151390
Status : **Answered**
Chosen Option : 3

Q.20 In angiospermic flowers, the filament of stamen is attached to the anther by ____.

Ans

- ☐ 1. placenta
- ☐ 2. hilum
- ☐ 3. funicle
- ☒ 4. connective

Question Type : **MCQ**
Question ID : 37135112807
Option 1 ID : 37135151226
Option 2 ID : 37135151225
Option 3 ID : 37135151228
Option 4 ID : 37135151227
Status : **Answered**
Chosen Option : 4

Q.21 The dead leucocytes are destroyed in the following organs / fluid EXCEPT ____.

Ans

✓ 1. spleen

✗ 2. lymph node

✗ 3. blood

✗ 4. liver

Question Type : **MCQ**

Question ID : 37135112882

Option 1 ID : 37135151525

Option 2 ID : 37135151526

Option 3 ID : 37135151528

Option 4 ID : 37135151527

Status : **Answered**

Chosen Option : 1

Q.22 A 22 year old girl is about to face interview. She is restless, is sweating and her heart beats have increased. These symptoms are due to increased secretion mainly of ____.

Ans

✗ 1. thymosins

✓ 2. catecholamines

✗ 3. aldosterone

✗ 4. androgens

Question Type : **MCQ**

Question ID : 37135112888

Option 1 ID : 37135151552

Option 2 ID : 37135151549

Option 3 ID : 37135151550

Option 4 ID : 37135151551

Status : **Answered**

Chosen Option : 2

Q.23 Water present in the form of hydrated oxides of silicon and aluminium in soil is called _____water.

Ans

☒ 1. gravitational

☒ 2. capillary

☒ 3. hygroscopic

☒ 4. combined

Question Type : **MCQ**

Question ID : 37135112839

Option 1 ID : 37135151353

Option 2 ID : 37135151356

Option 3 ID : 37135151355

Option 4 ID : 37135151354

Status : **Answered**

Chosen Option : 3

Q.24 With reference to agricultural crop, which of the following are considered as critical elements?

Ans

☒ 1. Mg, Fe, Zn

☒ 2. C, H, O

☒ 3. N, P, K

☒ 4. Mn, Cl, Ca

Question Type : **MCQ**

Question ID : 37135112811

Option 1 ID : 37135151244

Option 2 ID : 37135151241

Option 3 ID : 37135151243

Option 4 ID : 37135151242

Status : **Answered**

Chosen Option : 4

Q.25 Lemurs are found in_____.

Ans

 1. Central America

 2. East Indies

 3. Madagascar

 4. South Africa

Question Type : MCQ

Question ID : 37135112873

Option 1 ID : 37135151491

Option 2 ID : 37135151489

Option 3 ID : 37135151490

Option 4 ID : 37135151492

Status : Answered

Chosen Option : 1

Q.26 Match the correct phenotype and genotype of *Drosophila* for their wing sizes.

Phenotype

Genotype

i) Normal wings

a) vgno

ii) Nicked wings

b) vg

iii) Notched wings

c) Vg⁺

iv) Strap wings

d) vgst

v) Vestigial wing

e) vgni

Ans

 1.

(i) -e, (ii) - d, (iii) - c, (iv) - b, (v) -a

 2.

(i) -a, (ii) - b, (iii) - c, (iv) - d, (v) -e

 3.

(i) -d, (ii) - a, (iii) - b, (iv) - e, (v) -c

 4.

(i) -c, (ii) - e, (iii) - a, (iv) - d, (v) -b

Question Type : MCQ

Question ID : 37135112801

Option 1 ID : 37135151204

Option 2 ID : 37135151203

Option 3 ID : 37135151202

Option 4 ID : 37135151201

Status : Answered

Chosen Option : 2

Q.27 Cretaceous, Jurassic and Triassic periods are included in the ____ era.

Ans

- ☒ 1. Palaeozoic
- ☒ 2. Mesozoic
- ☒ 3. Proterozoic
- ☒ 4. Cenozoic

Question Type : MCQ

Question ID : 37135112857

Option 1 ID : 37135151427

Option 2 ID : 37135151426

Option 3 ID : 37135151428

Option 4 ID : 37135151425

Status : Answered

Chosen Option : 3

Q.28 Gargi constructed m-RNA in laboratory. Which of the following codons will she have as initiating and terminating the m-RNA respectively.

Ans

- ☒ 1. AUG-UAG
- ☒ 2. GUG-UAC
- ☒ 3. UAC-AUG
- ☒ 4. AUG-UCA

Question Type : MCQ

Question ID : 37135112829

Option 1 ID : 37135151315

Option 2 ID : 37135151314

Option 3 ID : 37135151313

Option 4 ID : 37135151316

Status : Answered

Chosen Option : 4

Q.29 With reference to human beings, find out the mis-match pair.

Ans  1.

Insemination — Discharge of semen into the vagina of a female.

 2.

Implantation — Setting of zygote in the endometrium uterus.

 3.

Menopause — Total arrest of menstrual cycle forever.

 4.

Menarche—Begining of menstrual cycle for the first time in life.

Question Type : **MCQ**

Question ID : 37135112884

Option 1 ID : 37135151536

Option 2 ID : 37135151534

Option 3 ID : 37135151533

Option 4 ID : 37135151535

Status : **Answered**

Chosen Option : 1

Q.30 Which of the following is NOT involved in glycolysis?

Ans

 1. Release of water

 2. Utilization of ATP

 3. Formation of ATP

 4. Release of CO₂

Question Type : **MCQ**

Question ID : 37135112808

Option 1 ID : 37135151230

Option 2 ID : 37135151232

Option 3 ID : 37135151229

Option 4 ID : 37135151231

Status : **Answered**

Chosen Option : 2

Q.31 In a population of an organism, allele 'A' has the frequency of 0.7 and allele 'a' has the frequency of 0.3. What is the frequency of homozygous dominant allele?

Ans

✓ 1. 0.49

✗ 2. 0.14

✗ 3. 1.4

✗ 4. 4.9

Question Type : **MCQ**

Question ID : 37135112881

Option 1 ID : 37135151522

Option 2 ID : 37135151524

Option 3 ID : 37135151523

Option 4 ID : 37135151521

Status : **Answered**

Chosen Option : 3

Q.32 Mortality of a region is assessed by _____ of individuals per unit area per unit time.

Ans

✗ 1. births

✗ 2. immigration

✗ 3. emigration

✓ 4. deaths

Question Type : **MCQ**

Question ID : 37135112878

Option 1 ID : 37135151512

Option 2 ID : 37135151510

Option 3 ID : 37135151509

Option 4 ID : 37135151511

Status : **Answered**

Chosen Option : 4

Q.33 In ornithophilous plants, flowers lack_____.

Ans

 1. sticky pollen grains

 2. nectar

 3. bright colour

 4. fragrance

Question Type : **MCQ**

Question ID : **37135112818**

Option 1 ID : **37135151272**

Option 2 ID : **37135151271**

Option 3 ID : **37135151269**

Option 4 ID : **37135151270**

Status : **Answered**

Chosen Option : **1**

Q.34 Match the process in Column – I with its explanation in Column-II and select the correct option.

Column – I	Column – II
i) Symport	a) shrinking of protoplasm in a plant cell when placed in hypertonic solution.
ii) Facilitated diffusion	b) transport of two types of molecules in same direction across cell membrane.
iii) Antiport	c) selective transport of molecules across the membrane through proteins.
iv) Plasmolysis	d) transport of two types of molecules in opposite direction across cell membrane.

Ans  1.

(i) -a, (ii)-d, (iii)-c, (iv)-b

 2.

(i) -b, (ii)-c, (iii)-d, (iv)-a

 3.

(i) -b, (ii)-a, (iii)-c, (iv)-d

 4.

(i) -b, (ii)-c, (iii)-a, (iv)-d

Question Type : **MCQ**
Question ID : 37135112830
Option 1 ID : 37135151320
Option 2 ID : 37135151318
Option 3 ID : 37135151319
Option 4 ID : 37135151317
Status : **Answered**
Chosen Option : 2

Q.35 *Hydra* and yeast reproduce asexually by_____.

Ans

☒ 1. binary fission

☒ 2. budding

☒ 3. zoospores

☒ 4. conidia

Question Type : **MCQ**

Question ID : 37135112831

Option 1 ID : 37135151321

Option 2 ID : 37135151322

Option 3 ID : 37135151323

Option 4 ID : 37135151324

Status : **Answered**

Chosen Option : 2

Q.36 Taq polymerase isolated from *Thermus aquaticus* can withstand temperature up to_____.

Ans

☒ 1. 84° C

☒ 2. 91° C

☒ 3. 94° C

☒ 4. 60° C

Question Type : **MCQ**

Question ID : 37135112809

Option 1 ID : 37135151235

Option 2 ID : 37135151234

Option 3 ID : 37135151233

Option 4 ID : 37135151236

Status : **Answered**

Chosen Option : 4

Q.37 Internal valves are present in the _____.

Ans

- ☒ 1. arterioles
- ☒ 2. lymphatic vessels
- ☒ 3. vascular capillaries
- ☒ 4. lymph capillaries

Question Type : **MCQ**

Question ID : 37135112889

Option 1 ID : 37135151555

Option 2 ID : 37135151556

Option 3 ID : 37135151554

Option 4 ID : 37135151553

Status : **Answered**

Chosen Option : 1

Q.38 Select the INCORRECT statement.

Ans

☒ 1.

Female bird is heterogametic.

☒ 2.

Holandric genes are present on non-homologous region of Y chromosome.

☒ 3.

Queen bee and worker bees have haploid number of chromosomes.

☒ 4.

Father is responsible for sex of the child in human beings.

Question Type : **MCQ**

Question ID : 37135112894

Option 1 ID : 37135151575

Option 2 ID : 37135151576

Option 3 ID : 37135151573

Option 4 ID : 37135151574

Status : **Answered**

Chosen Option : 2

Q.39 Excessive haemolysis of R.B.C.s with over production of bilirubin and abnormal function of _____ is observed in Jaundice.

Ans

- ☒ 1. lungs
- ☒ 2. heart
- ☒ 3. liver
- ☒ 4. stomach

Question Type : **MCQ**

Question ID : 37135112900

Option 1 ID : 37135151598

Option 2 ID : 37135151597

Option 3 ID : 37135151599

Option 4 ID : 37135151600

Status : **Answered**

Chosen Option : 3

Q.40 Empirical formula of chlorophyll -a is _____.

Ans

- ☒ 1. $C_{55}H_{72}O_4N_5Mg$
- ☒ 2. $C_{72}H_{55}O_5N_4Mg$
- ☒ 3. $C_{55}H_{70}O_5N_4Mg$
- ☒ 4. $C_{55}H_{72}O_5N_4Mg$

Question Type : **MCQ**

Question ID : 37135112845

Option 1 ID : 37135151380

Option 2 ID : 37135151377

Option 3 ID : 37135151378

Option 4 ID : 37135151379

Status : **Answered**

Chosen Option : 4

Q.41

Select the correct statement.

Ans

☒ 1.

The ovum secretes antifertilizin.

☒ 2.

The sperm secretes antifertilizin.

☒ 3.

The zygote secretes fertilizin.

☒ 4.

The sperm secretes fertilizin.

Question Type : **MCQ**

Question ID : 37135112862

Option 1 ID : 37135151446

Option 2 ID : 37135151447

Option 3 ID : 37135151448

Option 4 ID : 37135151445

Status : **Answered**

Chosen Option : 1

Q.42

Breasts are the modified ____glands.

Ans

☒ 1.

sebaceous

☒ 2.

ceruminous

☒ 3.

sweat

☒ 4.

vestibular

Question Type : **MCQ**

Question ID : 37135112872

Option 1 ID : 37135151485

Option 2 ID : 37135151488

Option 3 ID : 37135151486

Option 4 ID : 37135151487

Status : **Answered**

Chosen Option : 2

Q.43 Proximal convoluted tubule differs from distal convoluted tubule being lined by __.

Ans  1.

squamous cells with few microvilli

 2.

squamous cells with many microvilli

 3.

cuboidal cells with few microvilli

 4.

cuboidal cells with many microvilli

Question Type : **MCQ**

Question ID : 37135112877

Option 1 ID : 37135151508

Option 2 ID : 37135151505

Option 3 ID : 37135151506

Option 4 ID : 37135151507

Status : **Answered**

Chosen Option : 3

Q.44 Which one of the following is cause of inflammation of cornea, called snow blindness cataract?

Ans

 1. The gamma rays

 2. High dose of cosmic rays

 3. High dose of UV-B rays

 4. The infrared rays

Question Type : **MCQ**

Question ID : 37135112816

Option 1 ID : 37135151263

Option 2 ID : 37135151261

Option 3 ID : 37135151262

Option 4 ID : 37135151264

Status : **Answered**

Chosen Option : 4

Q.45 Gaurav visited a zoo where he saw tiger, lion, camel, musk deer, red fox, one-horned rhinoceros, great Indian bustard and peacock. He wanted to report the endangered species from the above list. The number will be _____.

Ans

 1. 3

 2. 4

 3. 5

 4. 8

Question Type : **MCQ**

Question ID : 37135112898

Option 1 ID : 37135151592

Option 2 ID : 37135151591

Option 3 ID : 37135151590

Option 4 ID : 37135151589

Status : **Answered**

Chosen Option : 3

Q.46 Which one of the following is a heteropolysaccharide?

Ans

 1. Cellulose

 2. Starch

 3. Glycogen

 4. Hyaluronic acid

Question Type : **MCQ**

Question ID : 37135112844

Option 1 ID : 37135151376

Option 2 ID : 37135151373

Option 3 ID : 37135151374

Option 4 ID : 37135151375

Status : **Answered**

Chosen Option : 2

Q.47 Which one of the following animal has longer loop of Henle?

Ans

- ✓ 1. Camel
- ✗ 2. Rat
- ✗ 3. Monkey
- ✗ 4. Labeo

Question Type : **MCQ**

Question ID : 37135112868

Option 1 ID : 37135151472

Option 2 ID : 37135151471

Option 3 ID : 37135151470

Option 4 ID : 37135151469

Status : **Answered**

Chosen Option : 3

Q.48 Wine and beer are produced without _____.

Ans

- ✓ 1. distillation
- ✗ 2. malting
- ✗ 3. fermentation
- ✗ 4. mashing

Question Type : **MCQ**

Question ID : 37135112850

Option 1 ID : 37135151400

Option 2 ID : 37135151399

Option 3 ID : 37135151397

Option 4 ID : 37135151398

Status : **Answered**

Chosen Option : 4

Q.49 Which one of the following blood vessels carries oxygenated blood?

Ans

- ☒ 1. coronary sinus
- ☒ 2. coronary artery
- ☒ 3. pulmonary artery
- ☒ 4. coronary vein

Question Type : MCQ

Question ID : 37135112861

Option 1 ID : 37135151443

Option 2 ID : 37135151442

Option 3 ID : 37135151444

Option 4 ID : 37135151441

Status : Answered

Chosen Option : 1

Q.50 Which one of the following lichens are used to obtain usnic acid?

Ans

☒ 1.

Usnea and *Cladonia*

☒ 2.

Evernia and *Ramalina*

☒ 3.

Rocella and *Lassalia*

☒ 4.

Usnea and *Citraia*

Question Type : MCQ

Question ID : 37135112819

Option 1 ID : 37135151276

Option 2 ID : 37135151273

Option 3 ID : 37135151274

Option 4 ID : 37135151275

Status : Answered

Chosen Option : 2

Q.51 The _____ brings about dilation of blood vessels?

Ans

✓ 1. histamine

✗ 2. gastrin

✗ 3. elastin

✗ 4. heparin

Question Type : **MCQ**

Question ID : 37135112875

Option 1 ID : 37135151499

Option 2 ID : 37135151498

Option 3 ID : 37135151497

Option 4 ID : 37135151500

Status : **Answered**

Chosen Option : 3

Q.52 Inflammation of alveoli, consolidation and exudation in lungs, are characteristics of _____ disease.

Ans

✗ 1. Malaria

✗ 2. Amoebiasis

✗ 3. Filariasis

✓ 4. Pneumonia

Question Type : **MCQ**

Question ID : 37135112896

Option 1 ID : 37135151581

Option 2 ID : 37135151582

Option 3 ID : 37135151584

Option 4 ID : 37135151583

Status : **Answered**

Chosen Option : 4

Q.53 Select the correct statement with reference to AIDS.

Ans  1.

It spreads through casual contact with HIV infected person.

 2. It is easily curable.

 3.

Patients called non-progressors develop AIDS very slowly or never at all.

 4.

It is transmitted through insect bite.

Question Type : **MCQ**

Question ID : 37135112854

Option 1 ID : 37135151413

Option 2 ID : 37135151415

Option 3 ID : 37135151416

Option 4 ID : 37135151414

Status : **Answered**

Chosen Option : 3

Q.54 Grafting is NOT possible in monocots because they do not possess _____.

Ans

 1. branches

 2. buds

 3. apical meristem

 4. cambium

Question Type : **MCQ**

Question ID : 37135112802

Option 1 ID : 37135151208

Option 2 ID : 37135151207

Option 3 ID : 37135151205

Option 4 ID : 37135151206

Status : **Answered**

Chosen Option : 2

Q.55 Photosynthetic organisms which lack chlorophyll-a are ____.

Ans

- ☒ 1. vascular plants
- ☒ 2. algae
- ☒ 3. photosynthetic bacteria
- ☒ 4. bryophytes

Question Type : **MCQ**

Question ID : 37135112803

Option 1 ID : 37135151210

Option 2 ID : 37135151209

Option 3 ID : 37135151211

Option 4 ID : 37135151212

Status : **Answered**

Chosen Option : 3

Q.56 Which one of the following heavy metals in water is responsible to cause haemolysis, diarrhoea, abdominal and chest pain in humans?

Ans

- ☒ 1. Selenium
- ☒ 2. Arsenic
- ☒ 3. Mercury
- ☒ 4. Lead

Question Type : **MCQ**

Question ID : 37135112885

Option 1 ID : 37135151538

Option 2 ID : 37135151540

Option 3 ID : 37135151539

Option 4 ID : 37135151537

Status : **Answered**

Chosen Option : 4

Q.57 Match the Column-I with Column-II and select the correct option.

Column-I	Column-II
A. Tidal volume	i) 2500-3000 ml
B. Inspiratory reserve volume	ii) 1000 ml
C. Residual volume	iii) 4500 ml
D. Vital capacity	iv) 500 ml

Ans  1.

A- iii, B-iv, C-i, D-ii

 2.

A- ii, B-iii, C-iv, D-i

 3.

A- iv, B-i, C-ii, D-iii

 4.

A- iv, B-ii, C-iii, D-i

Question Type : **MCQ**

Question ID : 37135112893

Option 1 ID : 37135151572

Option 2 ID : 37135151571

Option 3 ID : 37135151570

Option 4 ID : 37135151569

Status : **Answered**

Chosen Option : 1

Q.58 In the process of digestion, lipids present in oily and fried foods are digested and split into ___ and ____.

Ans

 1. fatty acids and glycerol

 2. glucose and glycerol

 3. fatty acids and amino acids

 4. glucose and amino acids

Question Type : **MCQ**

Question ID : 37135112874

Option 1 ID : 37135151496

Option 2 ID : 37135151493

Option 3 ID : 37135151495

Option 4 ID : 37135151494

Status : **Answered**

Chosen Option : 3

Q.59 High aspartic acid, low nitrogen and sugar content in maize variety makes it resistant to _____.

Ans

- ☒ 1. leaf curl
- ☒ 2. black rot
- ☒ 3. stripe rust
- ☒ 4. stem borer

Question Type : **MCQ**

Question ID : 37135112812

Option 1 ID : 37135151245

Option 2 ID : 37135151248

Option 3 ID : 37135151247

Option 4 ID : 37135151246

Status : **Answered**

Chosen Option : 3

Q.60 Cartilage forming cells are called_____.

Ans

- ☒ 1. osteoblasts
- ☒ 2. chondroblasts
- ☒ 3. adipocytes
- ☒ 4. osteocytes

Question Type : **MCQ**

Question ID : 37135112863

Option 1 ID : 37135151452

Option 2 ID : 37135151450

Option 3 ID : 37135151449

Option 4 ID : 37135151451

Status : **Answered**

Chosen Option : 4

Q.61 Which phytohormone promotes seed germination in cereals by synthesizing amylase enzyme?

Ans

✓ 1. **Gibberellin**

✗ 2. **Absciscic acid**

✗ 3. **Auxin**

✗ 4. **Cytokinin**

Question Type : **MCQ**

Question ID : **37135112820**

Option 1 ID : **37135151277**

Option 2 ID : **37135151279**

Option 3 ID : **37135151278**

Option 4 ID : **37135151280**

Status : **Answered**

Chosen Option : **1**

Q.62 In recombinant DNA technology after the bacteriophage infects a bacterial cell, plaques are formed by the _____.

Ans

✗ 1.

new colonies of bacterial cells

✗ 2. **infecting bacteriophages**

✓ 3. **lysed bacterial cells**

✗ 4. **virions**

Question Type : **MCQ**

Question ID : **37135112827**

Option 1 ID : **37135151308**

Option 2 ID : **37135151306**

Option 3 ID : **37135151307**

Option 4 ID : **37135151305**

Status : **Answered**

Chosen Option : **2**

Q.63 The number of carbon atoms per molecule of citric acid, oxaloacetic acid and pyruvic acid respectively are_____.

Ans

☒ 1. 4, 6 and 3

☒ 2. 6, 4 and 3

☒ 3. 6, 3 and 2

☒ 4. 4, 4 and 3

Question Type : MCQ

Question ID : 37135112815

Option 1 ID : 37135151257

Option 2 ID : 37135151260

Option 3 ID : 37135151258

Option 4 ID : 37135151259

Status : Answered

Chosen Option : 3

Q.64 Spinal cord is enclosed in _____ of vertebral column.

Ans

☒ 1. neural canal

☒ 2. Volkmann's canal

☒ 3. inguinal canal

☒ 4. central canal

Question Type : MCQ

Question ID : 37135112880

Option 1 ID : 37135151518

Option 2 ID : 37135151520

Option 3 ID : 37135151519

Option 4 ID : 37135151517

Status : Answered

Chosen Option : 4

Q.65 Majority of kidney stones are formed by_____.

Ans

☒ 1. uric acid

☒ 2. urea

☒ 3. calcium oxalate

☒ 4. cystine

Question Type : **MCQ**

Question ID : 37135112869

Option 1 ID : 37135151475

Option 2 ID : 37135151474

Option 3 ID : 37135151473

Option 4 ID : 37135151476

Status : **Answered**

Chosen Option : 1

Q.66 The product of syngamy in angiosperms is _____.

Ans

☒ 1. egg

☒ 2. PEN

☒ 3. oosphere

☒ 4. oospore

Question Type : **MCQ**

Question ID : 37135112814

Option 1 ID : 37135151255

Option 2 ID : 37135151256

Option 3 ID : 37135151254

Option 4 ID : 37135151253

Status : **Answered**

Chosen Option : 2

Q.67 The vector phage lambda is commonly used for gene transfer in _____.

Ans

☒ 1. plant cell

☒ 2. yeast

☒ 3. bacteria

☒ 4. insect

Question Type : **MCQ**

Question ID : 37135112849

Option 1 ID : 37135151395

Option 2 ID : 37135151393

Option 3 ID : 37135151394

Option 4 ID : 37135151396

Status : **Answered**

Chosen Option : 3

Q.68 What is the percentage of methane in biogas?

Ans

☒ 1. 15-45

☒ 2. 91-95

☒ 3. 85-90

☒ 4. 50-80

Question Type : **MCQ**

Question ID : 37135112828

Option 1 ID : 37135151309

Option 2 ID : 37135151312

Option 3 ID : 37135151311

Option 4 ID : 37135151310

Status : **Answered**

Chosen Option : 4

Q.69

Select the INCORRECT statement.

Ans

 1.

Hisardale is an example of cross-breeding experiment.

 2.

Genetic mother in MOET technique serves for multiple ovulation.

 3.

Apis mellifera and *Apis florea* are domesticated species of honey bee.

 4.

Layers management includes processes like culling and debeaking.

Question Type : **MCQ**

Question ID : 37135112871

Option 1 ID : 37135151482

Option 2 ID : 37135151483

Option 3 ID : 37135151481

Option 4 ID : 37135151484

Status : **Answered**

Chosen Option : 1

Q.70 The number of phenotypic and genotypic individuals produced during a typical Mendelian monohybrid cross will be _____ and _____ respectively.

Ans

 1. 2 and 2

 2. 3 and 2

 3. 2 and 3

 4. 3 and 3

Question Type : **MCQ**

Question ID : 37135112841

Option 1 ID : 37135151364

Option 2 ID : 37135151361

Option 3 ID : 37135151362

Option 4 ID : 37135151363

Status : **Answered**

Chosen Option : 2

Q.71 Norman Borlaug developed semi-dwarf varieties of wheat in _____.

Ans

✓ 1. Mexico

✗ 2. USA

✗ 3. Philippines

✗ 4. India

Question Type : **MCQ**

Question ID : 37135112825

Option 1 ID : 37135151300

Option 2 ID : 37135151297

Option 3 ID : 37135151299

Option 4 ID : 37135151298

Status : **Answered**

Chosen Option : 3

Q.72 Genetic material present in prokaryotes is _____.

Ans

✗ 1. nucleosome

✗ 2. nucleus

✗ 3. nucleolus

✓ 4. nucleoid

Question Type : **MCQ**

Question ID : 37135112891

Option 1 ID : 37135151562

Option 2 ID : 37135151561

Option 3 ID : 37135151563

Option 4 ID : 37135151564

Status : **Answered**

Chosen Option : 4

Q.73 In plant breeding, biofortification is a method_____.

Ans  1.

to increase the nutritional value of crop plants.

 2.

to make the crop plants disease resistant.

 3.

to improve the yield of the crop plant.

 4.

to make the crop plants pest resistant.

Question Type : **MCQ**

Question ID : 37135112835

Option 1 ID : 37135151339

Option 2 ID : 37135151338

Option 3 ID : 37135151337

Option 4 ID : 37135151340

Status : **Answered**

Chosen Option : 1

Q.74 A man working in a furnace room suffered from asphyxiation. What should be the main reason?

Ans  1.

More O₂ level in the furnace room.

 2.

CO poisoning due to high CO level in the furnace room.

 3.

More O₂ as well as fumes in the furnace room.

 4.

Less O₂ level in the furnace room.

Question Type : **MCQ**

Question ID : 37135112856

Option 1 ID : 37135151421

Option 2 ID : 37135151423

Option 3 ID : 37135151424

Option 4 ID : 37135151422

Status : **Answered**

Chosen Option : 2

Q.75 In Morgan's experiment on *Drosophila* cross between yellow bodied, white eyed female with wild type male gives ____% of parental gene combination in F₂ generation.

Ans

☒ 1. 37.2 %

☒ 2. 1.3 %

☒ 3. 62.8 %

☒ 4. 98.7 %

Question Type : **MCQ**

Question ID : 37135112864

Option 1 ID : 37135151454

Option 2 ID : 37135151453

Option 3 ID : 37135151455

Option 4 ID : 37135151456

Status : **Answered**

Chosen Option : 3

Q.76 The size of genome of *Methanococcus jannaschii* is _____

Ans

☒ 1. 1830 kb

☒ 2. 1660 kb

☒ 3. 569 kb

☒ 4. 12,500 kb

Question Type : **MCQ**

Question ID : 37135112860

Option 1 ID : 37135151439

Option 2 ID : 37135151438

Option 3 ID : 37135151437

Option 4 ID : 37135151440

Status : **Answered**

Chosen Option : 4

Q.77 Damage to VI cranial nerve in human, may affect the movements of _____.

Ans

- ☒ 1. neck
- ☒ 2. jaw
- ☒ 3. tongue
- ☒ 4. eye

Question Type : **MCQ**

Question ID : 37135112886

Option 1 ID : 37135151541

Option 2 ID : 37135151542

Option 3 ID : 37135151544

Option 4 ID : 37135151543

Status : **Answered**

Chosen Option : 1

Q.78 The enzymes needed for Krebs cycle are located in _____.

Ans

- ☒ 1. oxysomes of mitochondria
- ☒ 2. matrix of mitochondria
- ☒ 3. cytoplasm of cell
- ☒ 4. outer membrane of mitochondria

Question Type : **MCQ**

Question ID : 37135112842

Option 1 ID : 37135151367

Option 2 ID : 37135151366

Option 3 ID : 37135151365

Option 4 ID : 37135151368

Status : **Answered**

Chosen Option : 2

Q.79 Sexual reproduction is absent in the members of _____.

Ans

✓ 1. Deuteromycetes

✗ 2. Phycomycetes

✗ 3. Basidiomycetes

✗ 4. Ascomycetes

Question Type : MCQ

Question ID : 37135112834

Option 1 ID : 37135151336

Option 2 ID : 37135151333

Option 3 ID : 37135151335

Option 4 ID : 37135151334

Status : Answered

Chosen Option : 3

Q.80 Eukaryotic cells do NOT possess_____.

a) ribosomes

b) mesosomes

c) fimbriae

d) mitochondria

Ans

✗ 1. only b

✓ 2. b and c

✗ 3. a and b

✗ 4. only d

Question Type : MCQ

Question ID : 37135112855

Option 1 ID : 37135151417

Option 2 ID : 37135151420

Option 3 ID : 37135151419

Option 4 ID : 37135151418

Status : Answered

Chosen Option : 4

Q.81 An individual produced during a cross between two pure plants differing in two pairs of contrasting characters is always _____.

Ans  1.

homozygous for the two selected traits.

 2.

heterozygous for the two selected traits.

 3.

heterozygous for none of the traits.

 4.

homozygous for one trait and heterozygous for other trait.

Question Type : **MCQ**

Question ID : 37135112810

Option 1 ID : 37135151237

Option 2 ID : 37135151238

Option 3 ID : 37135151240

Option 4 ID : 37135151239

Status : **Answered**

Chosen Option : 1

Q.82 Arrange the following events a,b,c,d of chemical evolution in correct sequence and select the option.

- a) Transformation of heterotrophs into autotrophs.
- b) Formation of amino acids, purines and pyrimidines.
- c) Formation of protoproteins.
- d) Heavy elements like iron and nickel form the solid core of earth.

Ans

 1. c, a, b, d

 2. d, b, c, a

 3. a, c, d, b

 4. b, d, a, c

Question Type : **MCQ**

Question ID : 37135112899

Option 1 ID : 37135151594

Option 2 ID : 37135151593

Option 3 ID : 37135151595

Option 4 ID : 37135151596

Status : **Answered**

Chosen Op

Q.83 The uterus of a woman is attached to her body wall by a double fold of peritoneum called_____.

Ans

☒ 1. perimetrium

☒ 2. Mesometrium

☒ 3. mesosalpinx

☒ 4. myometrium

Question Type : **MCQ**

Question ID : 37135112867

Option 1 ID : 37135151465

Option 2 ID : 37135151467

Option 3 ID : 37135151468

Option 4 ID : 37135151466

Status : **Answered**

Chosen Option : 3

Q.84 Identify the set of plants bearing exalbuminous seeds.

Ans

☒ 1.

Castor, Bean, Pea, Sunflower

☒ 2.

Sunflower, Coconut, Maize, Wheat

☒ 3.

Pea, Bean, Gram, Castor

☒ 4.

Pea, Bean, Gram, Ground-nut

Question Type : **MCQ**

Question ID : 37135112821

Option 1 ID : 37135151282

Option 2 ID : 37135151283

Option 3 ID : 37135151284

Option 4 ID : 37135151281

Status : **Answered**

Chosen Option : 4

Q.85 Net productivity is the rate of storage of organic matter which is not used by the consumer, it is expressed as_____.

Ans

✓ 1.

production of Carbon g/m²/day

✗ 2. Chl/g dry wt/unit area

✗ 3. Chl/g/ m²/unit area

✗ 4. CO₂ fixed /g Chl/ hour

Question Type : **MCQ**

Question ID : 37135112832

Option 1 ID : 37135151328

Option 2 ID : 37135151325

Option 3 ID : 37135151326

Option 4 ID : 37135151327

Status : **Answered**

Chosen Option : 1

Q.86 The unfertilized human female gamete is usually about ____in diameter.

Ans

✗ 1. 60 μ

✗ 2. 70 μ

✗ 3. 40μ

✓ 4. 100 μ

Question Type : **MCQ**

Question ID : 37135112858

Option 1 ID : 37135151430

Option 2 ID : 37135151431

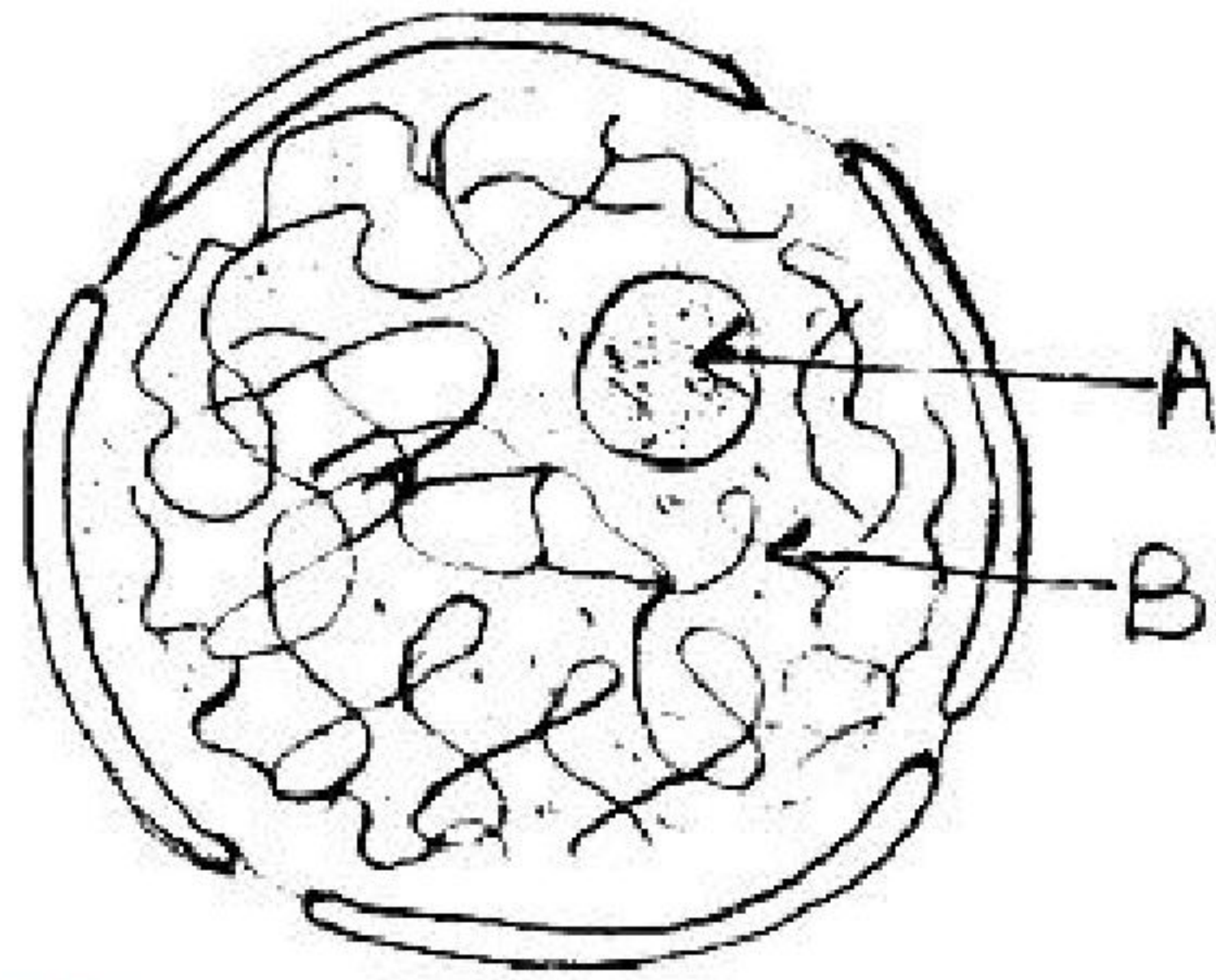
Option 3 ID : 37135151429

Option 4 ID : 37135151432

Status : **Answered**

Chosen Option : 2

Q.87 Identify labels A and B in the given diagram of nucleus and select the correct option.



Ans ☒ 1.

A-central granule, B-cytoskeleton

☒ 2.

A- nucleolus, B – chromatin network

☒ 3.

A – cell sap, B- endoplasmic reticulum

☒ 4.

A- nucleoid, B – axoneme

Question Type : MCQ

Question ID : 37135112897

Option 1 ID : 37135151588

Option 2 ID : 37135151587

Option 3 ID : 37135151585

Option 4 ID : 37135151586

Status : Answered

Chosen Option : 1

Q.88 Cerebral cortex is highly folded due to elevations and depressions on it. The elevations are called_____.

Ans

☒ 1.

funiculi

☒ 2.

fovea

☒ 3.

gyri

☒ 4.

sulci

Question Type : MCQ

Question ID : 37135112883

Option 1 ID : 37135151532

Option 2 ID : 37135151531

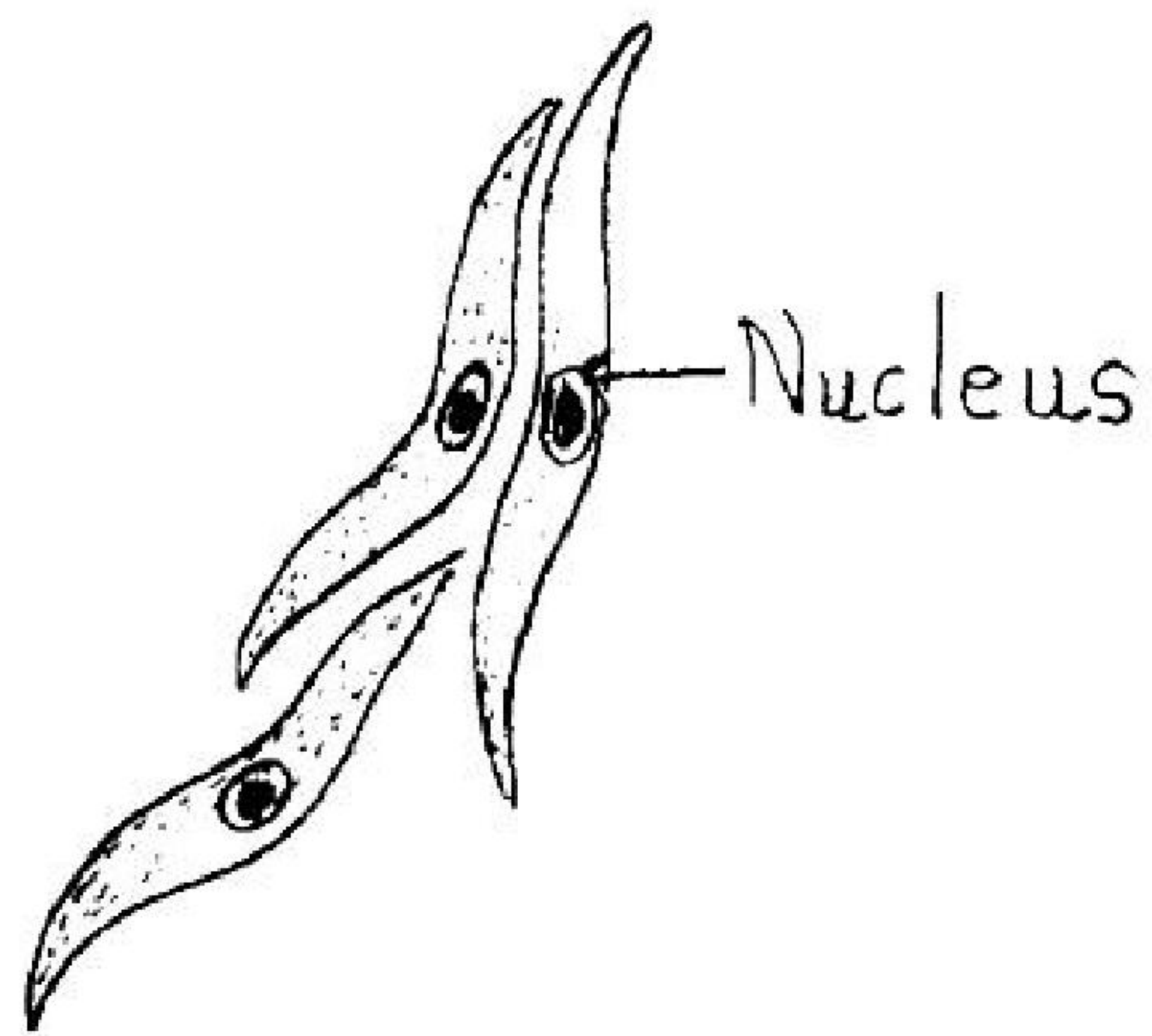
Option 3 ID : 37135151529

Option 4 ID : 37135151530

Status : Answered

Chosen Op

Q.89 These muscle fibres can be best described as _____.



Ans

☒ 1.

striated, voluntary and skeletal.

☒ 2.

unstriated, involuntary and skeletal.

☒ 3.

unstriated, involuntary and visceral.

☒ 4.

striated, voluntary and cardiac.

Question Type : MCQ

Question ID : 37135112895

Option 1 ID : 37135151580

Option 2 ID : 37135151579

Option 3 ID : 37135151578

Option 4 ID : 37135151577

Status : Answered

Chosen Option : 1

Q.90 DNAase is used to treat _____.

Ans

- ✓ 1. cystic fibrosis
- ✗ 2. haemophilia
- ✗ 3. pituitary dwarfism
- ✗ 4. burns

Question Type : MCQ

Question ID : 37135112851

Option 1 ID : 37135151402

Option 2 ID : 37135151401

Option 3 ID : 37135151403

Option 4 ID : 37135151404

Status : Answered

Chosen Option : 2

Q.91 Syphilis is caused by _____.

Ans

- ✓ 1. a spirochaete bacterium called *Treponema pallidum*
- ✗ 2. a spirochaete bacterium called *Neisseria gonorrhoeae*
- ✗ 3. a diplococcus bacterium called *Treponema pallidum*
- ✗ 4. a diplococcus bacterium called *Neisseria gonorrhoeae*

Question Type : MCQ

Question ID : 37135112887

Option 1 ID : 37135151545

Option 2 ID : 37135151547

Option 3 ID : 37135151548

Option 4 ID : 37135151546

Status : Answered

Chosen Option : 3

Q.92 Marijuana is obtained from _____ part of *Cannabis sativa*.

Ans

☒ 1. latex

☒ 2. leaf

☒ 3. inflorescence

☒ 4. root

Question Type : MCQ

Question ID : 37135112865

Option 1 ID : 37135151457

Option 2 ID : 37135151460

Option 3 ID : 37135151458

Option 4 ID : 37135151459

Status : Answered

Chosen Option : 4

Q.93 Which of the following compounds/intermediates of Krebs cycle do NOT undergo either decarboxylation or oxidation?

Ans

☒ 1. Isocitric acid

☒ 2. α - ketoglutaric acid

☒ 3. Fumaric acid

☒ 4. Malic acid

Question Type : MCQ

Question ID : 37135112822

Option 1 ID : 37135151285

Option 2 ID : 37135151287

Option 3 ID : 37135151288

Option 4 ID : 37135151286

Status : Answered

Chosen Option : 1

Q.94 Viroids attack mainly _____.

Ans  1.

plants, animals and bacteria

 2. animals only

 3. animals and plants

 4. plants only

Question Type : **MCQ**

Question ID : 37135112846

Option 1 ID : 37135151384

Option 2 ID : 37135151382

Option 3 ID : 37135151383

Option 4 ID : 37135151381

Status : **Answered**

Chosen Option : 2

Q.95 In DNA molecule, pairing between two complementary nucleotides takes place by _____ bonds.

Ans

 1. phospho-di-ester

 2. peptide

 3. hydrogen

 4. glycosidic

Question Type : **MCQ**

Question ID : 37135112837

Option 1 ID : 37135151345

Option 2 ID : 37135151347

Option 3 ID : 37135151346

Option 4 ID : 37135151348

Status : **Answered**

Chosen Option : 3

Q.96 The breed of _____ called Hisardale is developed in Punjab by cross -breeding technique.

Ans

- ✓ 1. sheep
- ✗ 2. donkey
- ✗ 3. horse
- ✗ 4. mule

Question Type : **MCQ**

Question ID : 37135112859

Option 1 ID : 37135151433

Option 2 ID : 37135151436

Option 3 ID : 37135151435

Option 4 ID : 37135151434

Status : **Answered**

Chosen Option : 4

Q.97 The RQ of fats and proteins is _____ respectively.

Ans

- ✓ 1. 0.7 and 0.9
- ✗ 2. 0.7 and 1.0
- ✗ 3. 0.9 and 0.7
- ✗ 4. 1.0 and 0.7

Question Type : **MCQ**

Question ID : 37135112833

Option 1 ID : 37135151329

Option 2 ID : 37135151332

Option 3 ID : 37135151330

Option 4 ID : 37135151331

Status : **Answered**

Chosen Option : 1

Q.98 The growth of lichens followed by mosses, herbs, shrubs and trees is an example of _____.

Ans

- ☒ 1. zonation
- ☐ 2. xerarch succession
- ☒ 3. stratification
- ☒ 4. hydrarch succession

Question Type : **MCQ**

Question ID : 37135112824

Option 1 ID : 37135151293

Option 2 ID : 37135151296

Option 3 ID : 37135151294

Option 4 ID : 37135151295

Status : **Answered**

Chosen Option : 2

Q.99 The term "Grand period of growth" was given by _____.

Ans

- ☒ 1. Gane
- ☒ 2. F.W.Went
- ☐ 3. Sachs
- ☒ 4. Kurosawa

Question Type : **MCQ**

Question ID : 37135112847

Option 1 ID : 37135151388

Option 2 ID : 37135151385

Option 3 ID : 37135151387

Option 4 ID : 37135151386

Status : **Answered**

Chosen Option : 3

Q.100 The layer of anther wall, which help in its dehiscence is _____.

Ans

 1. epidermis

 2. endothecium

 3. tapetum

 4. middle layers

Question Type : **MCQ**

Question ID : 37135112826

Option 1 ID : 37135151301

Option 2 ID : 37135151302

Option 3 ID : 37135151304

Option 4 ID : 37135151303

Status : **Answered**

Chosen Option : 4