Section: Physics

Q.1 A particle moves along a circular path of radius 'r' with uniform speed 'V'.The angle described by the particle in one second is

Ans

✗ 1. Vr

✗ 2. $\frac{r}{V}$

✗ 3. V^2r

✓ 4. $\frac{V}{r}$

Question Type : **MCQ**
Question ID : **37135114347**
Option 1 ID : **37135157385**
Option 2 ID : **37135157387**
Option 3 ID : **37135157388**
Option 4 ID : **37135157386**
Status : **Answered**
Chosen Option : **4**

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Q.2 The focal length of the objective used in compound microscope and telescope is respectively

Ans

1. ✗ short and short

2. ✗ large and large

3. ✗ large and short

4. ✓ short and large

Question Type : **MCQ**
Question ID : **37135114328**
Option 1 ID : **37135157309**
Option 2 ID : **37135157311**
Option 3 ID : **37135157312**
Option 4 ID : **37135157310**
Status : **Answered**
Chosen Option : **1**

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Q.3

The two waves are represented by $Y_1 = 10^{-2}\sin\left[50t + \frac{x}{25} + 0.3\right]$ m and $Y_2 = 10^{-2}\cos\left|50t + \frac{x}{25}\right|$ m where x is in metre and time in second. The phase difference between the two waves is nearly

Ans

✗ 1. 1·05 rad

✗ 2. 1·15 rad

✗ 3. 1·22 rad

✓ 4. 1·27 rad

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Question Type : **MCQ**
Question ID : **37135114310**
Option 1 ID : **37135157237**
Option 2 ID : **37135157238**
Option 3 ID : **37135157239**
Option 4 ID : **37135157240**
Status : **Answered**
Chosen Option : **1**

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Q.4 A disc has mass 'M' and radius 'R' . How much tangential force should be applied to the rim of the disc so as to rotate with angular velocity 'ω' in time t ?

Ans

1. $\frac{MR^2\omega}{2t}$

2. $\frac{MR^2\omega}{t}$

3. $\frac{MR\omega}{2t}$

4. $\frac{MR\omega}{t}$

Question Type : **MCQ**
Question ID : **37135114345**
Option 1 ID : **37135157380**
Option 2 ID : **37135157377**
Option 3 ID : **37135157378**
Option 4 ID : **37135157379**
Status : **Answered**
Chosen Option : **2**

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Q.5 A sphere of mass 'M' is attached to one end of a metal wire having length 'L' and diameter 'D'. It is whirled in a vertical circle of radius R with angular velocity 'ω'.

When the sphere is at lowest point of its path, the elongation of the wire is

(Y = Young's modulus of the material of the wire , g = acceleration due to gravity)

Ans

✗ 1. $\frac{6ML\left(R^2\omega^2+g\right)}{\pi D^2Y}$

✗ 2. $\frac{2ML\left(R^2\omega^2+g\right)}{\pi D^2Y}$

✓ 3. $\frac{4ML\left(R\omega^2+g\right)}{\pi D^2Y}$

✗ 4. $\frac{ML\left(R\omega^2+g\right)}{2\,\pi D^2Y}$

Question Type : **MCQ**
Question ID : **37135114332**
Option 1 ID : **37135157326**
Option 2 ID : **37135157327**
Option 3 ID : **37135157328**
Option 4 ID : **37135157325**
Status : **Answered**
Chosen Option : **1**

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Q.6

Find the dimensions of the quantity 'x' in the equation $T=2\pi\left[\frac{ML^3}{3Yx}\right]^{\frac{1}{2}}$ where 'T' is the time period, M is mass, L is length and Y is the Young's modulus.

Ans

✗ 1. $[L^3]$

✗ 2. $[L^6]$

✗ 3. $[L^2]$

✓ 4. $[L^4]$

Question Type : **MCQ**
Question ID : **37135114303**
Option 1 ID : **37135157210**
Option 2 ID : **37135157212**
Option 3 ID : **37135157209**
Option 4 ID : **37135157211**
Status : **Answered**
Chosen Option : **3**

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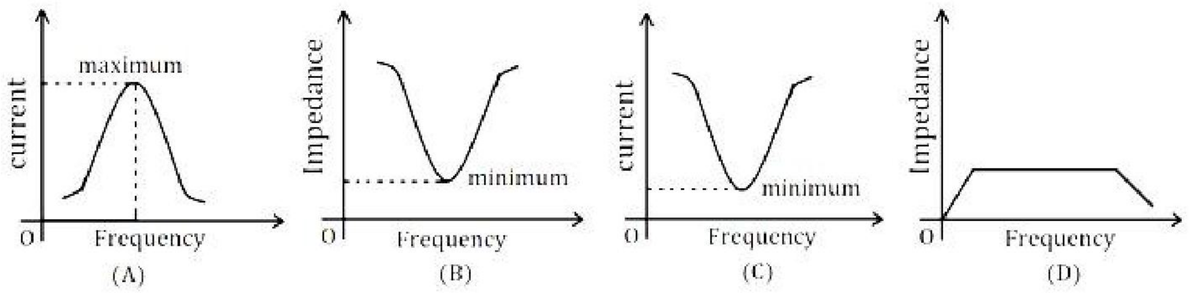
Q.7 Out of the following graphs which graph shows the correct relation for LC parallel resonant circuit ?



Ans

✗ 1. (A)

✗ 2. (D)

✓ 3. (C)

✗ 4. (B)

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Question Type : **MCQ**
Question ID : **37135114302**
Option 1 ID : **37135157205**
Option 2 ID : **37135157208**
Option 3 ID : **37135157207**
Option 4 ID : **37135157206**
Status : **Answered**
Chosen Option : **3**

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Q.8 An ammeter is obtained by shunting 'n' Ω galvanometer with 'n' Ω resistance. The additional shunt required to be connected across it to double the range is

Ans

✔ 1. $\frac{n}{3}$

✘ 2. n

✘ 3. $\frac{n}{4}$

✘ 4. $\frac{n}{2}$

Question Type : **MCQ**
Question ID : **37135114311**
Option 1 ID : **37135157242**
Option 2 ID : **37135157244**
Option 3 ID : **37135157241**
Option 4 ID : **37135157243**
Status : **Answered**
Chosen Option : **1**

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Q.9 A uniform rod of length '2L' has constant mass per unit length 'm'. Moment of inertia of the rod about an axis passing through its centre and perpendicular to length is

Ans

✗ 1. $\frac{mL^2}{4}$

✗ 2. $\frac{mL^3}{3}$

✓ 3. $\frac{2mL^3}{3}$

✗ 4. $\frac{mL^2}{12}$

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Question Type : **MCQ**
Question ID : **37135114301**
Option 1 ID : **37135157203**
Option 2 ID : **37135157202**
Option 3 ID : **37135157204**
Option 4 ID : **37135157201**
Status : **Answered**
Chosen Option : **4**

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Q.10 Capacity of a parallel plate air condenser is 2μF and voltage between the plates is changing at the rate of 3 V/s . The displacement current in the capacitor is

Ans

✗ 1. 8 μA

✗ 2. 2 μA

✓ 3. 6 μA

✗ 4. 4 μA

Question Type : **MCQ**
Question ID : **37135114324**
Option 1 ID : **37135157296**
Option 2 ID : **37135157293**
Option 3 ID : **37135157295**
Option 4 ID : **37135157294**
Status : **Answered**
Chosen Option : **1**

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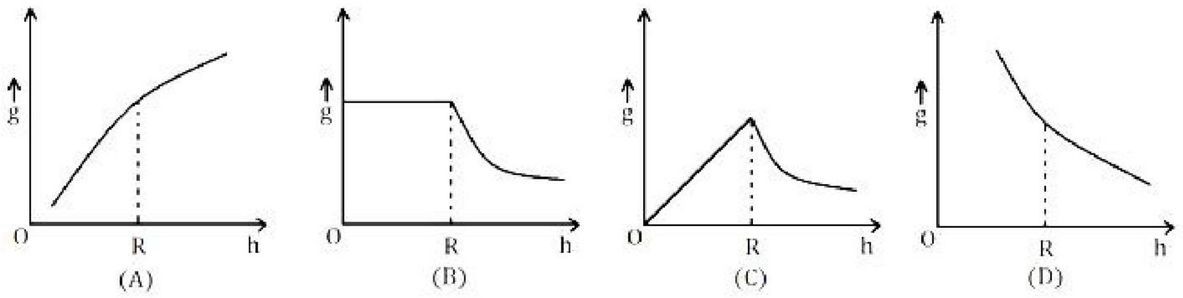
Q.11 Earth is assumed to be a sphere of radius 'R' and uniform density. The variation of acceleration due to gravity (g) according to the depth and the height (h) from the earth's surface is shown correctly by graph



Ans

✔ 1. (C)

✗ 2. (B)

✗ 3. (D)

✗ 4. (A)

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Question Type : **MCQ**
Question ID : **37135114317**
Option 1 ID : **37135157267**
Option 2 ID : **37135157266**
Option 3 ID : **37135157268**
Option 4 ID : **37135157265**
Status : **Answered**
Chosen Option : **1**

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Q.12 In photoelectric emission, the intensity of incident light is reduced then stopping potential

Ans

✗ 1. may increase or decrease.

✓ 2. remains same.

✗ 3. increases.

✗ 4. decreases.

Question Type : **MCQ**
Question ID : **37135114344**
Option 1 ID : **37135157376**
Option 2 ID : **37135157373**
Option 3 ID : **37135157374**
Option 4 ID : **37135157375**
Status : **Answered**
Chosen Option : **2**

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Q.13 Two wires of same length and material are used to form a square loop and a circular loop respectively. If same current is passed through both loops then the ratio of magnetic moment of square loop to that of circular loop is

Ans

1. $\frac{\pi}{2}$

2. π

3. $\frac{\pi}{4}$

4. 2π

Question Type : **MCQ**
Question ID : **37135114321**
Option 1 ID : **37135157282**
Option 2 ID : **37135157283**
Option 3 ID : **37135157281**
Option 4 ID : **37135157284**
Status : **Answered**
Chosen Option : **1**

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Q.14 A block of mass 'M' is pushed momentarily on horizontal surface with initial velocity 'V'. If ' μ ' is the coefficient of sliding friction between the block and surface, block will come to rest after time (g = acceleration due to gravity)

Ans

✗ 1. $\frac{\mu g}{V}$

✗ 2. $\mu g V$

✗ 3. $\frac{V^2}{\mu g}$

✓ 4. $\frac{V}{\mu g}$

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Question Type : **MCQ**
Question ID : **37135114343**
Option 1 ID : **37135157369**
Option 2 ID : **37135157370**
Option 3 ID : **37135157371**
Option 4 ID : **37135157372**
Status : **Answered**
Chosen Option : **3**

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Q.15 A transistor is used as a common emitter amplifier with a load resistance 2 k Ω. The input resistance is 150 Ω. Base current is changed by 20 μA which results in a change in collector current by 1·5 mA. The amplified voltage gain of the amplifier is

Ans

✗ 1. 500

✓ 2. 1000

✗ 3. 750

✗ 4. 1250

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Question Type : **MCQ**
Question ID : **37135114336**
Option 1 ID : **37135157341**
Option 2 ID : **37135157343**
Option 3 ID : **37135157342**
Option 4 ID : **37135157344**
Status : **Answered**
Chosen Option : **4**

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Q.16 Two unknown resistances are connected in two gaps of a meter bridge. The null point is obtained at 40 cm from left end. A 30 Ω resistance is connected in series with the smaller of the two resistances, the null point shifts by 20cm to the right end. The value of smaller resistance is

Ans

✗ 1. $8\ \Omega$

✓ 2. $24\ \Omega$

✗ 3. $32\ \Omega$

✗ 4. $16\ \Omega$

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Question Type : **MCQ**
Question ID : **37135114326**
Option 1 ID : **37135157301**
Option 2 ID : **37135157303**
Option 3 ID : **37135157304**
Option 4 ID : **37135157302**
Status : **Answered**
Chosen Option : **2**

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Q.17 A satellite is revolving in a circular orbit around the earth has total energy 'E'. Its potential energy in that orbit is

Ans

✗ 1. $\frac{E}{2}$

✓ 2. $2\,E$

✗ 3. E

✗ 4. $4\,E$

Question Type : **MCQ**
Question ID : **37135114330**
Option 1 ID : **37135157317**
Option 2 ID : **37135157319**
Option 3 ID : **37135157318**
Option 4 ID : **37135157320**
Status : **Answered**
Chosen Option : **2**

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Q.18 A U tube with limbs of diameters 5mm and 2mm contains water of surface tension 7×10^{-2} N/m , angle of contact is zero and density 10^3 kg/m^3 . The difference in the level in the two limbs is (g = 10 m/s^2)

Ans

✗ 1. 7·7 mm

✗ 2. 6·8 mm

✗ 3. 9·5 mm

✓ 4. 8·4 mm

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Question Type : **MCQ**
Question ID : **37135114304**
Option 1 ID : **37135157214**
Option 2 ID : **37135157213**
Option 3 ID : **37135157216**
Option 4 ID : **37135157215**
Status : **Answered**
Chosen Option : **1**

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Q.19 Find the intensity of magnetization of a magnet of moment 4 Am^2 which weighs 50 gram. (Density of the material of a magnet = 5000 kg/m^3)

Ans

✗ 1. $10^5 A/m$

✗ 2. $3 \times 10^5 A/m$

✗ 3. $2 \times 10^5 A/m$

✓ 4. $4 \times 10^5 A/m$

Question Type : **MCQ**
Question ID : **37135114329**
Option 1 ID : **37135157313**
Option 2 ID : **37135157315**
Option 3 ID : **37135157314**
Option 4 ID : **37135157316**
Status : **Answered**
Chosen Option : **4**

Q.20 In hydrogen atom, the product of the angular momentum and the linear momentum of the electron is proportional to (n = principal quantum number)

Ans

✗ 1. n^1

✓ 2. n^0

✗ 3. n^3

✗ 4. n^2

Question Type : **MCQ**
Question ID : **37135114319**
Option 1 ID : **37135157275**
Option 2 ID : **37135157276**
Option 3 ID : **37135157273**
Option 4 ID : **37135157274**
Status : **Answered**
Chosen Option : **1**

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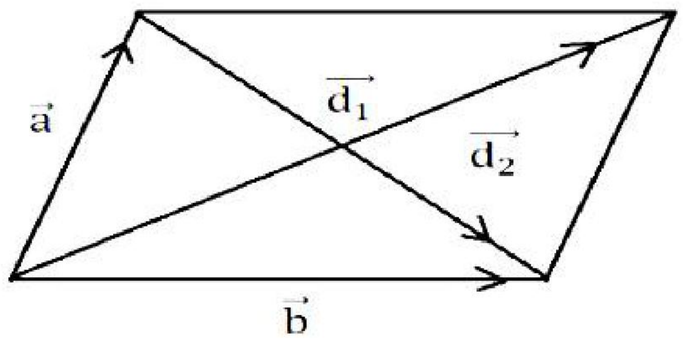
Q.21

In a parallelogram shown below , $a^2 + b^2 = ?$



Ans

1. $\frac{d_1^2 - d_2^2}{4}$

2. $\frac{d_1^2 - d_2^2}{2}$

3. $\frac{d_1^2 + d_2^2}{2}$

4. $\frac{d_1^2 + d_2^2}{4}$

Question Type : **MCQ**
Question ID : **37135114308**
Option 1 ID : **37135157231**
Option 2 ID : **37135157229**
Option 3 ID : **37135157230**
Option 4 ID : **37135157232**
Status : **Answered**
Chosen Option : **3**

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Q.22 For a prism , 'A' is the angle of prism, 'δ' is the angle of deviation , μ is the refractive index of the material of a prism, the refractivity of the material of a prism is

Ans

✗ 1. μ

✗ 2. $(\mu + 1)$

✓ 3. $(\mu - 1)$

✗ 4. $(1 - \mu)$

Question Type : **MCQ**
Question ID : **37135114333**
Option 1 ID : **37135157329**
Option 2 ID : **37135157330**
Option 3 ID : **37135157331**
Option 4 ID : **37135157332**
Status : **Answered**
Chosen Option : **3**

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Q.23 A wire of length 'L' , mass 'M' , density 'ϱ' , radius 'R' is stretched by certain load. If 'r' and 'ℓ' is change in radius and length respectively then Poisson's ratio is

Ans

✔ 1. $\frac{Mr}{\pi R^3 \varrho \ell}$

✘ 2. $\frac{Mr}{\pi R^2 \varrho \ell}$

✘ 3. $\frac{Mr^2}{\pi R^3 \varrho \ell}$

✘ 4. $\frac{2Mr^2}{\pi R^2 \varrho \ell}$

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Question Type : **MCQ**
Question ID : **37135114350**
Option 1 ID : **37135157397**
Option 2 ID : **37135157398**
Option 3 ID : **37135157399**
Option 4 ID : **37135157400**
Status : **Answered**
Chosen Option : **3**

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Q.24 A capacitor $C_1 = 4\mu F$ is connected is series with another capacitor $C_2 = 1\mu F$. The combination is connected across d.c. source of 200 V. The ratio of potential across C_2 to that across C_1 is

Ans

✗ 1. 8 : 1

✗ 2. 16 : 1

✗ 3. 2 : 1

✓ 4. 4 : 1

Question Type : **MCQ**
Question ID : **37135114316**
Option 1 ID : **37135157263**
Option 2 ID : **37135157264**
Option 3 ID : **37135157261**
Option 4 ID : **37135157262**
Status : **Answered**
Chosen Option : **2**

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Q.25 In potentiometer experiment, for a given current, the balancing length for a cell is obtained at 'L' cm. If current through potentiometer wire is decreased then the balancing length will

Ans

✔ 1. be increased.

✗ 2. not be changed.

✗ 3. become half.

✗ 4. be decreased.

Question Type : **MCQ**
Question ID : **37135114305**
Option 1 ID : **37135157217**
Option 2 ID : **37135157219**
Option 3 ID : **37135157220**
Option 4 ID : **37135157218**
Status : **Answered**
Chosen Option : **4**

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Q.26 If 'f' is the number of degrees of freedom of a molecule of a gas and ratio of molar specific heats of a gas, $\gamma = 1 + \frac{2}{f}$ where $\gamma = Cp/Cv$. The ratio of 'γ' for monoatomic gas to 'γ' for (rigid) diatomic gas is

Ans

1. $\frac{25}{21}$

2. $\frac{35}{15}$

3. $\frac{21}{25}$

4. $\frac{15}{35}$

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Question Type : **MCQ**
Question ID : **37135114340**
Option 1 ID : **37135157359**
Option 2 ID : **37135157358**
Option 3 ID : **37135157360**
Option 4 ID : **37135157357**
Status : **Answered**
Chosen Option : **2**

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Q.27 In non-uniform circular motion, the ratio of tangential acceleration to radial acceleration is (r = radius of circle , V = speed and $\propto$ = angular acceleration)

Ans

✗ 1. $\frac{r \propto}{V}$

✓ 2. $\left(\frac{r}{V}\right)^2 \propto$

✗ 3. $\left(\frac{V}{r}\right)^2 \frac{1}{\propto}$

✗ 4. $\left(\frac{V}{r}\right)^2 \propto$

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Question Type : **MCQ**
Question ID : **37135114306**
Option 1 ID : **37135157224**
Option 2 ID : **37135157222**
Option 3 ID : **37135157223**
Option 4 ID : **37135157221**
Status : **Answered**
Chosen Option : **2**

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Q.28 When light of wavelength 'λ' is incident on a photosensitive surface, the stopping potential is 'V'. When light of wavelength '3 λ' is incident on the same surface, the stopping potential is $\frac{V}{6}$. Threshold wavelength for the surface is

Ans

✔ 1. 5λ

✘ 2. 9λ

✘ 3. 3λ

✘ 4. 6λ

Question Type : **MCQ**
Question ID : **37135114334**
Option 1 ID : **37135157334**
Option 2 ID : **37135157336**
Option 3 ID : **37135157333**
Option 4 ID : **37135157335**
Status : **Answered**
Chosen Option : **2**

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Q.29 A stretched string under tension fixed at both ends vibrates in 4^{th} harmonic. The equation of the stationary wave is $Y = 3\sin(200\pi t)\cos(0.4x)$ where x and y are in cm and t in second. The length of the vibrating string is

Ans

✔ 1. $10\ \pi$

✘ 2. $4\ \pi$

✘ 3. $6\ \pi$

✘ 4. $8\ \pi$

Question Type : **MCQ**
Question ID : **37135114315**
Option 1 ID : **37135157260**
Option 2 ID : **37135157257**
Option 3 ID : **37135157258**
Option 4 ID : **37135157259**
Status : **Answered**
Chosen Option : **3**

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Q.30 The resonance tube is filled with a liquid of density higher than that of water, then resonating frequency

Ans

✗ 1. may increase or decrease.

✗ 2. will decrease.

✓ 3. will not change.

✗ 4. will increase.

Question Type : **MCQ**
Question ID : **37135114327**
Option 1 ID : **37135157308**
Option 2 ID : **37135157307**
Option 3 ID : **37135157305**
Option 4 ID : **37135157306**
Status : **Answered**
Chosen Option : **2**

Q.31 When Young's double slit experiment is performed in liquid, 8^{th} bright band is found to lie where 5^{th} dark band lies in air. Refractive index of liquid is

Ans

✗ 1. 1·9

✓ 2. 1·77

✗ 3. 1·5

✗ 4. 1·33

Question Type : **MCQ**
Question ID : **37135114335**
Option 1 ID : **37135157340**
Option 2 ID : **37135157339**
Option 3 ID : **37135157338**
Option 4 ID : **37135157337**
Status : **Answered**
Chosen Option : **3**

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Q.32 The upward force of 105 dyne due to surface tension is balanced by the force due to the weight of the water column and 'h' is the height of water in the capillary. The inner circumference of the capillary is (surface tension of water = 7×10^{-2} N/m)

Ans

✔ 1. 1·5 cm

✘ 2. 2·5 cm

✘ 3. 2 cm

✘ 4. 1 cm

Question Type : **MCQ**
Question ID : **37135114342**
Option 1 ID : **37135157366**
Option 2 ID : **37135157368**
Option 3 ID : **37135157367**
Option 4 ID : **37135157365**
Status : **Answered**
Chosen Option : **3**

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Q.33 The range of the voltmeter is 'V' when 50 Ω resistance is connected in series. Its range gets doubled when 500 Ω resistance is connected in series. The resistance of voltmeter is

Ans

✗ 1. 200 Ω

✓ 2. 400 Ω

✗ 3. 600 Ω

✗ 4. 800 Ω

Question Type : **MCQ**
Question ID : **37135114349**
Option 1 ID : **37135157393**
Option 2 ID : **37135157394**
Option 3 ID : **37135157395**
Option 4 ID : **37135157396**
Status : **Answered**
Chosen Option : **4**

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Q.34 In Boolean algebra the output C and the inputs A and B are related as $C = \overline{A \cdot B}$. The logic gate corresponding to this equation is

Ans

✗ 1. NOT

✗ 2. AND

✗ 3. OR

✓ 4. NAND

Question Type : **MCQ**
Question ID : **37135114331**
Option 1 ID : **37135157324**
Option 2 ID : **37135157321**
Option 3 ID : **37135157323**
Option 4 ID : **37135157322**
Status : **Answered**
Chosen Option : **4**

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Q.35 A bomb at rest explodes in to three parts of same mass. The momentum of two parts is $-3\,P\hat{i}$ and $2\,P\hat{j}$ respectively. The magnitude of the momentum of third part is

Ans

✗ 1. $\sqrt{11}\ P$

✓ 2. $\sqrt{13}\ P$

✗ 3. $\sqrt{15}\ P$

✗ 4. $\sqrt{7}\ P$

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Question Type : **MCQ**
Question ID : **37135114348**
Option 1 ID : **37135157390**
Option 2 ID : **37135157391**
Option 3 ID : **37135157392**
Option 4 ID : **37135157389**
Status : **Answered**
Chosen Option : **2**

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Q.36

The initial pressure and volume of a gas is 'P' and 'V' respectively. First by isothermal process gas is expanded to volume '9V' and then by adiabatic process its volume is compressed to 'V' then its final pressure is (Ratio of specific heat at constant pressure to constant volume $= \frac{3}{2}$)

Ans

1. 6 P

2. 27 P

3. 3 P

4. 9 P

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Question Type : **MCQ**
Question ID : **37135114307**
Option 1 ID : **37135157226**
Option 2 ID : **37135157228**
Option 3 ID : **37135157225**
Option 4 ID : **37135157227**
Status : **Answered**
Chosen Option : **2**

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Q.37 'n' number of waves are produced on a string in 0.5 second. Now the tension in a string is doubled (Keeping radius constant). The number of waves produced in 0.5 second for the same harmonic will be

Ans

✗ 1. $\frac{n}{\sqrt{2}}$

✗ 2. n

✗ 3. $\frac{\sqrt{2}}{n}$

✓ 4. $\sqrt{2}\ n$

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Question Type : **MCQ**
Question ID : **37135114320**
Option 1 ID : **37135157280**
Option 2 ID : **37135157277**
Option 3 ID : **37135157279**
Option 4 ID : **37135157278**
Status : **Answered**
Chosen Option : **4**

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Q.38

Two coherent monochromatic light beams of intensities 4 I and 9 I are superposed.

The maximum and minimum possible intensities in the resulting beam are

Ans

✗ 1. 4 I and 9 I

✗ 2. 16 I and 21 I

✗ 3. 2 I and 3 I

✓ 4. 25 I and I

Question Type : **MCQ**
Question ID : **37135114314**
Option 1 ID : **37135157254**
Option 2 ID : **37135157255**
Option 3 ID : **37135157253**
Option 4 ID : **37135157256**
Status : **Answered**
Chosen Option : **4**

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Q.39 An electron in a stationary Bohr orbit of hydrogen atom jumps from 4^{th} energy level to the ground state. The velocity that the photon acquired as a result of electron transition will be (h = Planck's constant, R = Rydberg's constant, m = mass of photon)

Ans

1. $\frac{15\ hR}{16\ m}$

2. $\frac{12\ hR}{13\ m}$

3. $\frac{9\ hR}{11\ m}$

4. $\frac{7\ hR}{9\ m}$

Question Type : **MCQ**
Question ID : **37135114341**
Option 1 ID : **37135157361**
Option 2 ID : **37135157362**
Option 3 ID : **37135157363**
Option 4 ID : **37135157364**
Status : **Answered**
Chosen Option : **1**

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Q.40 Two long thin parallel wires carrying current 'I' separated by a distance 'd' exert force 'F' on one another. The distance between them is doubled and current is decreased to $\frac{1}{3}$. The force they exert on one another is

Ans

1. $\frac{F}{6}$ ✗

2. $\frac{F}{3}$ ✗

3. $\frac{F}{18}$ ✓

4. $\frac{F}{9}$ ✗

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Question Type : **MCQ**
Question ID : **37135114313**
Option 1 ID : **37135157250**
Option 2 ID : **37135157249**
Option 3 ID : **37135157252**
Option 4 ID : **37135157251**
Status : **Answered**
Chosen Option : **2**

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Q.41 A spring has length 'L' and force constant 'K'. It is cut into two springs of length 'L_1' and 'L_2' such that $L_1 = NL_2$ (N is an integer). The force constant of spring of length 'L_1' is

Ans

1. $\frac{K(N+1)}{N}$

2. $\frac{K(N+1)}{2N}$

3. $\frac{K(N-1)}{N}$

4. $\frac{K(N-1)}{2N}$

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Question Type : **MCQ**
Question ID : **37135114325**
Option 1 ID : **37135157298**
Option 2 ID : **37135157300**
Option 3 ID : **37135157297**
Option 4 ID : **37135157299**
Status : **Answered**
Chosen Option : **1**

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Q.42 A simple pendulum of length 'L' has mass 'M' and it oscillates freely with amplitude 'A'. At extreme position its potential energy is (g = acceleration due to gravity)

Ans

✗ 1. $\frac{MgA}{2L}$

✗ 2. $\frac{2\ MgA}{L}$

✗ 3. $\frac{MgA^2}{L}$

✓ 4. $\frac{MgA^2}{2\ L}$

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Question Type : **MCQ**
Question ID : **37135114312**
Option 1 ID : **37135157248**
Option 2 ID : **37135157247**
Option 3 ID : **37135157246**
Option 4 ID : **37135157245**
Status : **Answered**
Chosen Option : **4**

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Q.43 In vaccum, light takes time 't' to travel a distance 'd' and it takes time 'T' to travel a distance '5d' in a denser medium. The critical angle of the given pair of media is

Ans

1. $\sin^{-1}\left(\frac{3t}{T}\right)$

2. $\sin^{-1}\left(\frac{5t}{T}\right)$

3. $\sin^{-1}\left(\frac{t}{T}\right)$

4. $\sin^{-1}\left(\frac{2t}{T}\right)$

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Question Type : **MCQ**
Question ID : **37135114309**
Option 1 ID : **37135157236**
Option 2 ID : **37135157235**
Option 3 ID : **37135157233**
Option 4 ID : **37135157234**
Status : **Answered**
Chosen Option : **2**

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Q.44 Two parallel plates seperated by a distance 'd' are kept at potential difference 'V' volt. A charge 'q' of mass 'm' enters in parallel plates with some velocity. The acceleration of the charged particle will be

Ans

✗ 1. $\frac{md}{Vq}$

✗ 2. $\frac{qm}{Vd}$

✓ 3. $\frac{qV}{dm}$

✗ 4. $\frac{qd}{Vm}$

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Question Type : **MCQ**
Question ID : **37135114339**
Option 1 ID : **37135157356**
Option 2 ID : **37135157354**
Option 3 ID : **37135157355**
Option 4 ID : **37135157353**
Status : **Answered**
Chosen Option : **3**

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Q.45 A current carrying circular coil of area 'A' produces magnetic field 'B' at the centre.

The magnetic moment of the coil is (μ_0 = permeability of free space)

Ans

1. $\frac{BA^3}{2\pi\mu_0}$

2. $\frac{2B\sqrt{A^3}}{\mu_0\sqrt{\pi}}$

3. $\frac{2BA}{\mu_0}$

4. $\frac{B\sqrt{A^3}}{4\pi\mu_0}$

Question Type : **MCQ**
Question ID : **37135114318**
Option 1 ID : **37135157272**
Option 2 ID : **37135157271**
Option 3 ID : **37135157269**
Option 4 ID : **37135157270**
Status : **Answered**
Chosen Option : **4**

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Q.46 A ball falls in the downward direction from a height 'h' with initial velocity V. It collides with ground, loses $\left(\frac{3}{4}\right)^{th}$ of energy and comes back to the same height.

The initial velocity 'V' is (g = aceleration due to gravity)

Ans

✗ 1. $\sqrt{gh}$

✓ 2. $\sqrt{6gh}$

✗ 3. $\sqrt{3gh}$

✗ 4. $\sqrt{2gh}$

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Question Type : **MCQ**
Question ID : **37135114338**
Option 1 ID : **37135157352**
Option 2 ID : **37135157349**
Option 3 ID : **37135157350**
Option 4 ID : **37135157351**
Status : **Answered**
Chosen Option : **1**

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Q.47 A particle starting from mean position performs linear S.H.M. Its amplitude is 'A' and total energy is 'E'. At what displacement its kinetic energy is 3E/4 ?

Ans

1. $\frac{A}{3}$

2. A

3. $\frac{A}{4}$

4. $\frac{A}{2}$

Question Type : **MCQ**
Question ID : **37135114337**
Option 1 ID : **37135157346**
Option 2 ID : **37135157348**
Option 3 ID : **37135157345**
Option 4 ID : **37135157347**
Status : **Answered**
Chosen Option : **3**

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Q.48 In phase modulation, according to information signal, a parameter of the carrier wave which is varied, is

Ans

✔ 1. phaseshift.

✗ 2. phaseshift as well as amplitude.

✗ 3. amplitude.

✗ 4. amplitude as well as frequency.

Question Type : **MCQ**
Question ID : **37135114346**
Option 1 ID : **37135157381**
Option 2 ID : **37135157383**
Option 3 ID : **37135157382**
Option 4 ID : **37135157384**
Status : **Answered**
Chosen Option : **3**

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Q.49 Four spheres each of mass 'M' and radius 'R' are placed with their centres on the corners of a square of side 'L'. The moment of inertia of the system about any side of square is

Ans

✗ 1. $\frac{4}{3}MR^2 + ML^2$

✗ 2. $\frac{3}{5}MR^2 + 2ML^2$

✓ 3. $\frac{8}{5}MR^2 + 2ML^2$

✗ 4. $\frac{6}{5}MR^2 + ML^2$

Question Type : **MCQ**
Question ID : **37135114322**
Option 1 ID : **37135157286**
Option 2 ID : **37135157285**
Option 3 ID : **37135157287**
Option 4 ID : **37135157288**
Status : **Answered**
Chosen Option : **2**

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Q.50 Resultant of two forces $\overrightarrow{F_1}$ and $\overrightarrow{F_2}$ is of magnitude 'P'. If $\overrightarrow{F_2}$ is reversed, the resultant of two forces is of magnitude 'Q'. The value of $(P^2 + Q^2)$ is

Ans

✗ 1. $\frac{F_1^2 + F_2^2}{4}$

✗ 2. $\frac{F_1^2 - F_2^2}{2}$

✗ 3. $\frac{F_1^2 + F_2^2}{2}$

✓ 4. $2(F_1^2 + F_2^2)$

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Question Type : **MCQ**
Question ID : **37135114323**
Option 1 ID : **37135157292**
Option 2 ID : **37135157290**
Option 3 ID : **37135157289**
Option 4 ID : **37135157291**
Status : **Answered**
Chosen Option : **3**

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Q.1 Which among the following vitamins must be included sufficiently in the diet to avoid haemorrhage ?

Ans

✗ 1. Vitamin E

✗ 2. Vitamin C

✓ 3. Vitamin P

✗ 4. Vitamin K

Question Type : **MCQ**
Question ID : **37135114371**
Option 1 ID : **37135157482**
Option 2 ID : **37135157481**
Option 3 ID : **37135157484**
Option 4 ID : **37135157483**
Status : **Answered**
Chosen Option : **2**

Q.2 Which among the following polymers is prepared by using Zieglar – Natta catalyst?

Ans

✓ 1. HDPE

✗ 2. LDPE

✗ 3. Orlon

✗ 4. Dacron

Question Type : **MCQ**
Question ID : **37135114394**
Option 1 ID : **37135157574**
Option 2 ID : **37135157573**
Option 3 ID : **37135157575**
Option 4 ID : **37135157576**
Status : **Answered**
Chosen Option : **2**

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Q.3

Identify the correct decreasing order of relative tendency of metals to undergo oxidation from following.

Ans

✗ 1. $Cr > Al > Mg > Fe$

✓ 2. $Mg > Al > Cr > Fe$

✗ 3. $Al > Fe > Cr > Mg$

✗ 4. $Fe > Cr > Al > Mg$

Question Type : **MCQ**
Question ID : **37135114375**
Option 1 ID : **37135157497**
Option 2 ID : **37135157498**
Option 3 ID : **37135157500**
Option 4 ID : **37135157499**
Status : **Answered**
Chosen Option : **4**

Q.4

Which of the following metals does NOT displace zinc from it's solution?

Ans

✓ 1. Fe

✗ 2. K

✗ 3. Na

✗ 4. Al

Question Type : **MCQ**
Question ID : **37135114351**
Option 1 ID : **37135157404**
Option 2 ID : **37135157403**
Option 3 ID : **37135157402**
Option 4 ID : **37135157401**
Status : **Answered**
Chosen Option : **3**

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Q.5

One amu is equal to,

Ans

✗ 1. $6{\cdot}022 \times 10^{-23}$ g

✗ 2. $8{\cdot}302 \times 10^{-23}$ g

✓ 3. $1{\cdot}6605 \times 10^{-24}$ g

✗ 4. $4{\cdot}661 \times 10^{-25}$ g

Question Type : **MCQ**
Question ID : **37135114377**
Option 1 ID : **37135157505**
Option 2 ID : **37135157506**
Option 3 ID : **37135157507**
Option 4 ID : **37135157508**
Status : **Answered**
Chosen Option : **1**

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Q.6

The oxidation state of chlorine in it's oxyacid depends upon

Ans

✔ 1.

number of oxygen atoms per molecule

✗ 2.

number of chlorine atoms per molecule

✗ 3.

oxidation state of oxygen in molecule

✗ 4.

number of lone pair electrons on oxygen atom

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Question Type : **MCQ**
Question ID : **37135114365**
Option 1 ID : **37135157458**
Option 2 ID : **37135157457**
Option 3 ID : **37135157460**
Option 4 ID : **37135157459**
Status : **Answered**
Chosen Option : **3**

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Q.7

Which of the following is NOT a role of histamine?

Ans

✔ 1.

To neutralize excess of acid in stomach

✗ 2.

To contract smooth muscles of blood vessels of stomach wall

✗ 3.

To stimulate the secretion of pepsin

✗ 4.

To stimulate the secretion of hydrochloric acid

Question Type : **MCQ**
Question ID : **37135114378**
Option 1 ID : **37135157511**
Option 2 ID : **37135157512**
Option 3 ID : **37135157510**
Option 4 ID : **37135157509**
Status : **Answered**
Chosen Option : **1**

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Q.8 Which of the following is obtained on alkaline hydrolysis of 1,1-dichlorocyclohexane?

Ans

✗ 1. Cyclohexanol

✓ 2. Cyclohexanone

✗ 3. Benzaldehyde

✗ 4. Cyclohexane carbaldehyde

Question Type : **MCQ**
Question ID : **37135114395**
Option 1 ID : **37135157580**
Option 2 ID : **37135157578**
Option 3 ID : **37135157579**
Option 4 ID : **37135157577**
Status : **Answered**
Chosen Option : **3**

Q.9 Addition of hydrogen bromide to but-2-ene and but-1-ene forms

Ans ✗ 1.

1–bromobutane and 2-bromobutane respectively

✗ 2. 1–bromobutane only

✗ 3.

2–bromobutane and 1-bromobutane respectively

✓ 4. 2–bromobutane only

Question Type : **MCQ**
Question ID : **37135114376**
Option 1 ID : **37135157502**
Option 2 ID : **37135157504**
Option 3 ID : **37135157501**
Option 4 ID : **37135157503**
Status : **Answered**
Chosen Op

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Q.10 A mixture of starch, sodium hydrogen carbonate and potassium hydrogen tartarate is known as

Ans

✗ 1. Baking soda

✗ 2. Caustic Soda

✗ 3. Washing Soda

✓ 4. Baking Powder

Question Type : **MCQ**
Question ID : **37135114368**
Option 1 ID : **37135157469**
Option 2 ID : **37135157471**
Option 3 ID : **37135157472**
Option 4 ID : **37135157470**
Status : **Answered**
Chosen Option : **4**

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Q.11 Identify the products obtained by nitration of aniline in strongly acidic medium

Ans

✔ 1.

o–nitroaniline, m-nitroaniline and p-nitroaniline

✘ 2.

p-nitroaniline and o-nitroaniline

✘ 3.

m–nitroaniline and p-nitroaniline

✘ 4.

o–nitroaniline and m-nitroaniline

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Question Type : **MCQ**
Question ID : **37135114399**
Option 1 ID : **37135157596**
Option 2 ID : **37135157593**
Option 3 ID : **37135157595**
Option 4 ID : **37135157594**
Status : **Answered**
Chosen Option : **3**

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Q.12 Why is observed molar mass of acetic acid in benzene is greater than actual molar mass?

Ans

✗ 1.

Due to ionization of solute particles

✓ 2.

Due to association of solute particles

✗ 3. Due to hydrolysis of solute

✗ 4.

Due to dissociation of solute particles

Question Type : **MCQ**
Question ID : **37135114396**
Option 1 ID : **37135157583**
Option 2 ID : **37135157582**
Option 3 ID : **37135157584**
Option 4 ID : **37135157581**
Status : **Answered**
Chosen Option : **4**

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Q.13 Which of the following compounds is obtained on heating primary amine with chloroform and alcoholic potassium hydroxide ?

Ans

✗ 1. Alkene

✗ 2. Alkyl cyanide

✓ 3. Alkyl isocyanide

✗ 4. Amide

Question Type : **MCQ**
Question ID : **37135114363**
Option 1 ID : **37135157452**
Option 2 ID : **37135157449**
Option 3 ID : **37135157450**
Option 4 ID : **37135157451**
Status : **Answered**
Chosen Option : **3**

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Q.14 Which among the following pairs of elements in their respective oxidation states will have same value of effective magnetic moment ?
(Atomic number: Sc = 21, Ti = 22, Cr = 24, Co = 27, Ni = 28, Zn = 30)

Ans

✗ 1. Zn^{2+} and Cr^{3+}

✗ 2. Ni^{2+} and Ti^{3+}

✓ 3. Cr^{3+} and Co^{2+}

✗ 4. Sc^{3+} and Ti^{3+}

Question Type : **MCQ**
Question ID : **37135114382**
Option 1 ID : **37135157528**
Option 2 ID : **37135157527**
Option 3 ID : **37135157526**
Option 4 ID : **37135157525**
Status : **Answered**
Chosen Option : **3**

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Q.15

Which of the following processes does not lead to coagulation?

Ans

✗ 1.

Heating of an egg in boiling water.

✗ 2.

Addition of an electrolyte to sol.

✗ 3. Electrophoresis.

✓ 4. Addition of water to gold sol.

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Question Type : **MCQ**
Question ID : **37135114393**
Option 1 ID : **37135157569**
Option 2 ID : **37135157570**
Option 3 ID : **37135157572**
Option 4 ID : **37135157571**
Status : **Answered**
Chosen Option : **3**

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Q.16

Which among the following polymers is used for wrapping food?

Ans

✗ 1. Dacron

✗ 2. Nylon-6

✗ 3. Lexan

✓ 4. Saran

Question Type : **MCQ**
Question ID : **37135114387**
Option 1 ID : **37135157545**
Option 2 ID : **37135157546**
Option 3 ID : **37135157548**
Option 4 ID : **37135157547**
Status : **Answered**
Chosen Option : **3**

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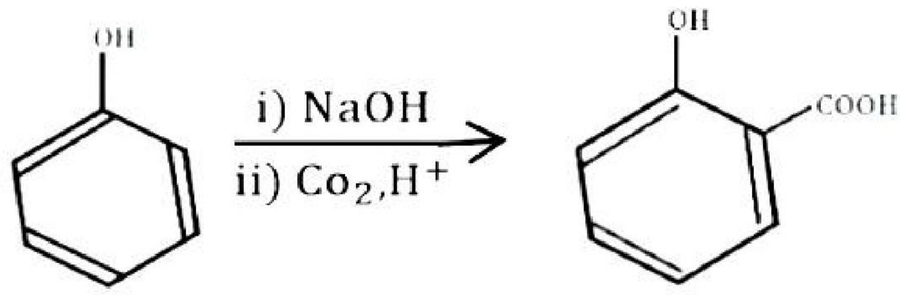
Q.17

The reaction stated below is named as



Ans

1. Kolbe's reaction

2. Sandmeyers reaction

3. Reimer – Tiemann reaction

4. Stephen reaction

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Question Type : **MCQ**
Question ID : **37135114392**
Option 1 ID : **37135157566**
Option 2 ID : **37135157567**
Option 3 ID : **37135157565**
Option 4 ID : **37135157568**
Status : **Answered**
Chosen Option : **1**

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Q.18 Which of the following set of parameters indicate spontaneity of reaction at all temperatures?

Ans

✗ 1. $\Delta H = +ve, \Delta S = -ve, \Delta G = +ve$

✗ 2. $\Delta H = +ve, \Delta S = +ve, \Delta G = -ve$

✗ 3. $\Delta H = -ve, \Delta S = -ve, \Delta G = +ve$

✓ 4. $\Delta H = -ve, \Delta S = +ve, \Delta G = -ve$

Question Type : **MCQ**
Question ID : **37135114381**
Option 1 ID : **37135157524**
Option 2 ID : **37135157523**
Option 3 ID : **37135157522**
Option 4 ID : **37135157521**
Status : **Answered**
Chosen Option : **4**

Q.19 Identify the product obtained on roasting of concentrated zinc blende at about 1200 K ?

Ans

✗ 1. Zinc Sulphate

✓ 2. Zinc Oxide

✗ 3. Zinc Spelter

✗ 4. Zinc Carbonate

Question Type : **MCQ**
Question ID : **37135114380**
Option 1 ID : **37135157519**
Option 2 ID : **37135157518**
Option 3 ID : **37135157517**
Option 4 ID : **37135157520**
Status : **Answered**
Chosen Option : **2**

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Q.20 Identify the precipitate and it's quantity obtained when 1 mole of aqueous solution of Tetrammine dichloroplatinum(IV)bromide is treated with aqueous silver nitrate in excess.

Ans

✗ 1. Two moles of silver chloride

✗ 2. Two moles of silver chloride and one mole of silver bromide

✗ 3. One mole of silver bromide

✓ 4. Two moles of silver bromide

Question Type : **MCQ**
Question ID : **37135114397**
Option 1 ID : **37135157587**
Option 2 ID : **37135157588**
Option 3 ID : **37135157585**
Option 4 ID : **37135157586**
Status : **Answered**
Chosen Option : **3**

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Q.21 Which among the following complexes is NOT a heteroleptic complex?

Ans

✗ 1. $[Pt(NH_3)_4Br_2]Br_2$

✓ 2. $[Co(NH_3)_6]Cl_3$

✗ 3. $[Co(en)_2Cl_2]^+$

✗ 4. $[Co(en)_2Cl_2]Cl$

Question Type : **MCQ**
Question ID : **37135114372**
Option 1 ID : **37135157486**
Option 2 ID : **37135157485**
Option 3 ID : **37135157487**
Option 4 ID : **37135157488**
Status : **Answered**
Chosen Option : **2**

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Q.22 Which of the following equations is NOT correct for van't Hoff factor?

Ans

✗ 1. $$i = \frac{n\,(observed)}{n(Theoretical)}$$

✗ 2. $$i = \frac{Theoretical\ molar\ mass}{Observed\ molar\ mass}$$

✓ 3. $$i = \frac{Observed\ molar\ mass}{Theoretical\ molar\ mass}$$

✗ 4. $$i = \frac{\pi\,(Observed)}{\pi\,(Theortical)}$$

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Question Type : **MCQ**
Question ID : **37135114354**
Option 1 ID : **37135157413**
Option 2 ID : **37135157414**
Option 3 ID : **37135157415**
Option 4 ID : **37135157416**
Status : **Answered**
Chosen Option : **3**

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Q.23

What are the constituents of Natalite?

Ans

✗ 1. Dimethyl ether and methanol

✗ 2. Dimethyl ether and ethanol

✓ 3. Diethyl ether and ethanol

✗ 4. Diethyl ether and methanol

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Question Type : **MCQ**
Question ID : **37135114370**
Option 1 ID : **37135157477**
Option 2 ID : **37135157478**
Option 3 ID : **37135157480**
Option 4 ID : **37135157479**
Status : **Answered**
Chosen Option : **1**

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Q.24

Which of the following antibiotics cantain As=As linkage?

Ans

✗ 1. Sulphapyridine

✗ 2. Prontosil

✓ 3. Salvarsan

✗ 4. Sulphanilamide

Question Type : **MCQ**
Question ID : **37135114384**
Option 1 ID : **37135157535**
Option 2 ID : **37135157533**
Option 3 ID : **37135157536**
Option 4 ID : **37135157534**
Status : **Answered**
Chosen Option : **3**

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Q.25

Identify the product X in the following reaction.

Phenol $\xrightarrow[H_2SO_4]{Na_2Cr_2O_7}$ X

Ans

✗ 1. Benzaldehyde

✗ 2. Salicylic acid

✓ 3. Benzoquinone

✗ 4. Benzoic acid

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Question Type : **MCQ**
Question ID : **37135114373**
Option 1 ID : **37135157491**
Option 2 ID : **37135157490**
Option 3 ID : **37135157492**
Option 4 ID : **37135157489**
Status : **Answered**
Chosen Option : **3**

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Q.26

Which among the following is a complex lipid?

Ans

✗ 1. Testosterone

✓ 2. Lecithin

✗ 3. Cholesterol

✗ 4. α - phellandrene

Question Type : **MCQ**
Question ID : **37135114352**
Option 1 ID : **37135157407**
Option 2 ID : **37135157405**
Option 3 ID : **37135157406**
Option 4 ID : **37135157408**
Status : **Answered**
Chosen Option : **3**

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Q.27 Which element among the following exhibits electronic configuration as $[Xe]4f^0$ in +4 oxidation state?

Ans

✗ 1. Neodynium (z=60)

✗ 2. Praseodymium (z=59)

✓ 3. Cerium (z = 58)

✗ 4. Dysprosium (z=66)

Question Type : **MCQ**
Question ID : **37135114355**
Option 1 ID : **37135157420**
Option 2 ID : **37135157418**
Option 3 ID : **37135157417**
Option 4 ID : **37135157419**
Status : **Answered**
Chosen Option : **4**

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Q.28 Which of the following compounds is obtained on ozonolysis of followed by reduction with Zn dust and water ?

Ans

✗ 1. Butanal

✗ 2. Propanal

✓ 3. Propanone

✗ 4. Butanone

Question Type : **MCQ**
Question ID : **37135114388**
Option 1 ID : **37135157552**
Option 2 ID : **37135157550**
Option 3 ID : **37135157549**
Option 4 ID : **37135157551**
Status : **Answered**
Chosen Option : **4**

Q.29 Identify the compound that gives 2,5-dimethyl hexane by reacting with sodium metal in presence of dry ether.

Ans

✗ 1. tert-butyl bromide

✗ 2. sec-butyl bromide

✗ 3. n-butyl bromide

✓ 4. isobutyl bromide

Question Type : **MCQ**
Question ID : **37135114362**
Option 1 ID : **37135157448**
Option 2 ID : **37135157445**
Option 3 ID : **37135157446**
Option 4 ID : **37135157447**
Status : **Answered**
Chosen Op

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Q.30 In which among the following compounds, oxidation number of phosphorus is +3?

Ans

✗ 1. $H_4P_2O_7$

✓ 2. H_3PO_3

✗ 3. H_3PO_2

✗ 4. H_3PO_4

Question Type : **MCQ**
Question ID : **37135114357**
Option 1 ID : **37135157428**
Option 2 ID : **37135157426**
Option 3 ID : **37135157425**
Option 4 ID : **37135157427**
Status : **Answered**
Chosen Option : **2**

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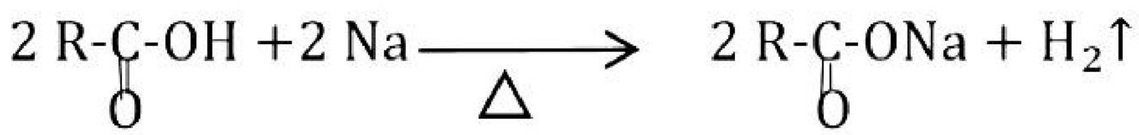
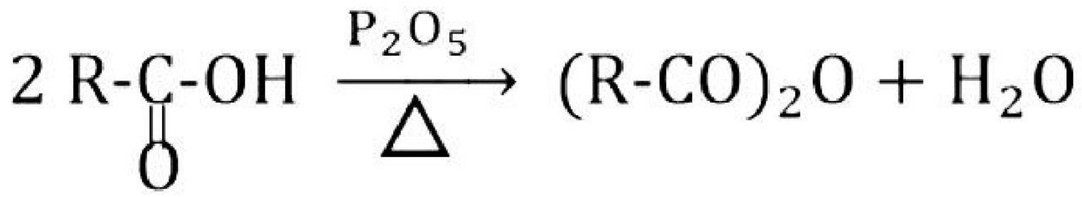
Q.31 Which among the following reactions explain the acidic property of carboxylic acid?

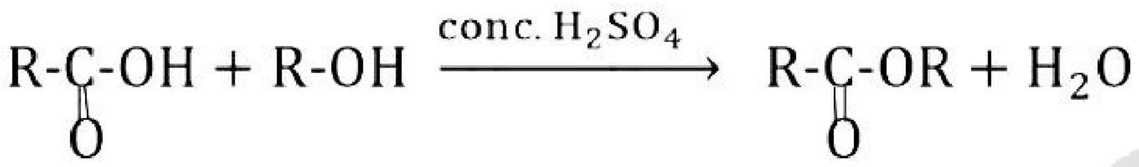
Ans ✔ 1.



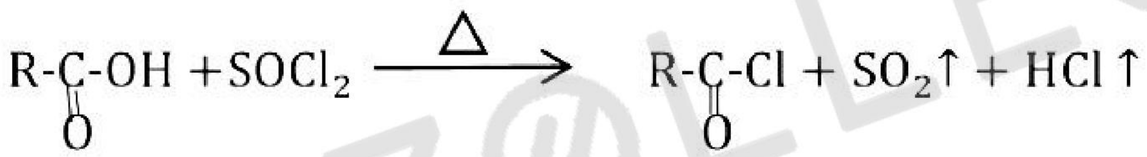
✗ 2.



✗ 3.



✗ 4.



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Question Type : **MCQ**
Question ID : **37135114367**
Option 1 ID : **37135157466**
Option 2 ID : **37135157468**
Option 3 ID : **37135157467**
Option 4 ID : **37135157465**
Status : **Answered**
Chosen Option : **3**

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Q.32

The reaction $2NO_2Cl_{(g)} \longrightarrow 2NO_{2(g)} + Cl_{2(g)}$ takes place in two steps as

i) $NO_2Cl_{(g)} \longrightarrow NO_{2(g)} + Cl_{(g)}$

ii) $NO_2Cl_{(g)} + Cl_{(g)} \longrightarrow NO_{2(g)} + Cl_{2(g)}$

Identify the reaction intermediate.

Ans

✗ 1. $NO_2Cl_{(g)}$

✓ 2. $Cl_{(g)}$

✗ 3. $NO_{2(g)}$

✗ 4. $Cl_{2(g)}$

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Question Type : **MCQ**
Question ID : **37135114385**
Option 1 ID : **37135157537**
Option 2 ID : **37135157538**
Option 3 ID : **37135157539**
Option 4 ID : **37135157540**
Status : **Answered**
Chosen Option : **2**

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Q.33

What is the torsion angle in staggered conformation of ethane

Ans

✗ 1. 45°

✗ 2. 180°

✓ 3. 60°

✗ 4. 0°

Question Type : **MCQ**
Question ID : **37135114379**
Option 1 ID : **37135157516**
Option 2 ID : **37135157515**
Option 3 ID : **37135157514**
Option 4 ID : **37135157513**
Status : **Answered**
Chosen Option : **2**

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Q.34

Thermodynamics deals with

Ans

✗ 1.

the path between the two states of the system

✗ 2.

microscopic properties of system

✗ 3.

rates at which physical and chemical processes occur

✓ 4.

macroscopic properties of the system

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Question Type : **MCQ**
Question ID : **37135114360**
Option 1 ID : **37135157438**
Option 2 ID : **37135157437**
Option 3 ID : **37135157439**
Option 4 ID : **37135157440**
Status : **Answered**
Chosen Option : **1**

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Q.35 Which of the following molecules contain hybrid orbitals with 25% 'S' character?

Ans

✗ 1. Ethylene

✗ 2. Boron trifluoride

✗ 3. Acetylene

✓ 4. Methane

Question Type : **MCQ**
Question ID : **37135114364**
Option 1 ID : **37135157455**
Option 2 ID : **37135157456**
Option 3 ID : **37135157453**
Option 4 ID : **37135157454**
Status : **Answered**
Chosen Option : **4**

Q.36 What is the mass of unit cell of gold if it crystallises in fcc structure?
(at.mass of gold =197 g mol^{-1})

Ans

✗ 1. $98{\cdot}14 \times 10^{-23}$ g

✗ 2. $32{\cdot}71 \times 10^{-23}$ g

✗ 3. $65{\cdot}42 \times 10^{-23}$ g

✓ 4. $130{\cdot}85 \times 10^{-23}$ g

Question Type : **MCQ**
Question ID : **37135114366**
Option 1 ID : **37135157464**
Option 2 ID : **37135157461**
Option 3 ID : **37135157462**
Option 4 ID : **37135157463**
Status : **Answered**
Chosen Op

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Q.37 What is the radius of sodium atom if it crystallizes in bcc structure with edge length of unit cell $4{\cdot}29 \times 10^{-8}$ cm.

Ans

✗ 1. $2{\cdot}30 \times 10^{-8}$ cm

✗ 2. $6{\cdot}19 \times 10^{-9}$ cm

✓ 3. $1{\cdot}85 \times 10^{-8}$ cm

✗ 4. $1{\cdot}61 \times 10^{-8}$ cm

Question Type : **MCQ**
Question ID : **37135114389**
Option 1 ID : **37135157556**
Option 2 ID : **37135157555**
Option 3 ID : **37135157554**
Option 4 ID : **37135157553**
Status : **Answered**
Chosen Option : **3**

Q.38 How many lone pair of electrons are present on each oxygen atom in any oxy acids of chlorine?

Ans

✗ 1. 0

✗ 2. 3

✗ 3. 1

✓ 4. 2

Question Type : **MCQ**
Question ID : **37135114356**
Option 1 ID : **37135157421**
Option 2 ID : **37135157424**
Option 3 ID : **37135157422**
Option 4 ID : **37135157423**
Status : **Answered**
Chosen Option : **4**

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Q.39

What is the oxidation state of chlorine atom in perchloric acid?

Ans

1. -5

2. +7

3. +5

4. +3

Question Type : **MCQ**
Question ID : **37135114369**
Option 1 ID : **37135157474**
Option 2 ID : **37135157476**
Option 3 ID : **37135157475**
Option 4 ID : **37135157473**
Status : **Answered**
Chosen Option : **3**

Q.40

What is the bond order of Be_2 molecule?

Ans

1. Two

2. Three

3. Zero

4. One

Question Type : **MCQ**
Question ID : **37135114383**
Option 1 ID : **37135157531**
Option 2 ID : **37135157532**
Option 3 ID : **37135157530**
Option 4 ID : **37135157529**
Status : **Answered**
Chosen Option : **3**

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Q.41

Which among the following is a polynuclear hydride?

Ans

✔ 1. B_2H_6

✗ 2. LiH

✗ 3. NH_3

✗ 4. NaH

Question Type : **MCQ**
Question ID : **37135114386**
Option 1 ID : **37135157541**
Option 2 ID : **37135157544**
Option 3 ID : **37135157542**
Option 4 ID : **37135157543**
Status : **Answered**
Chosen Option : **3**

Q.42

The rate law for the reaction is $r_1 = k[A]^a [B]^b$. If the concentration of A is doubled and that of B is halved, the new rate is r_2 then what is the ratio of r_2/r_1 ?

Ans

✗ 1. $a - b$

✗ 2. $\frac{1}{2^{(a+b)}}$

✗ 3. $a + b$

✔ 4. $2^{(a-b)}$

Question Type : **MCQ**
Question ID : **37135114398**
Option 1 ID : **37135157591**
Option 2 ID : **37135157589**
Option 3 ID : **37135157590**
Option 4 ID : **37135157592**
Status : **Answered**
Chosen Option : **4**

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Q.43 Which among the following on chlorination yields only one monochloroderivative?

Ans

✗ 1. Isopentane

✓ 2. Neopentane

✗ 3. n-pentane

✗ 4. 2, 3-Dimethylpentane

Question Type : **MCQ**
Question ID : **37135114353**
Option 1 ID : **37135157410**
Option 2 ID : **37135157411**
Option 3 ID : **37135157409**
Option 4 ID : **37135157412**
Status : **Answered**
Chosen Option : **3**

Q.44 Which among the following compounds does not exhibit resonance?

Ans

✓ 1. Cyclohexane

✗ 2. Phenol

✗ 3. Aniline

✗ 4. Nitro ethane

Question Type : **MCQ**
Question ID : **37135114374**
Option 1 ID : **37135157494**
Option 2 ID : **37135157493**
Option 3 ID : **37135157496**
Option 4 ID : **37135157495**
Status : **Answered**
Chosen Option : **1**

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Q.45 The standard emf of Daniell cell is 1·10 volt. What is the maximum electrical work obtained from Daniell cell? (F=96500 C)

Ans

✔ 1. 212·3 kJ

✗ 2. 175·4 kJ

✗ 3. 106·15 kJ

✗ 4. 57·07 kJ

Question Type : **MCQ**
Question ID : **37135114359**
Option 1 ID : **37135157436**
Option 2 ID : **37135157435**
Option 3 ID : **37135157434**
Option 4 ID : **37135157433**
Status : **Answered**
Chosen Option : **3**

Q.46 What mass of water is formed when 1 mole of methane gas reacts with 2 mole of dioxygen under identical conditions in their standard states ?

Ans

✗ 1. 27 g

✗ 2. 18 g

✔ 3. 36 g

✗ 4. 54 g

Question Type : **MCQ**
Question ID : **37135114391**
Option 1 ID : **37135157562**
Option 2 ID : **37135157561**
Option 3 ID : **37135157563**
Option 4 ID : **37135157564**
Status : **Answered**
Chosen Option : **3**

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Q.47

IUPAC name of $H_2N\text{-}CH_2\text{-}CH{=}CH_2$ is

Ans

✗ 1. 1-propenamine

✗ 2. 3-Aminopropene

✗ 3. Prop-1-en-3-amine

✓ 4. Prop-2-en-1-amine

Question Type : **MCQ**
Question ID : **37135114358**
Option 1 ID : **37135157429**
Option 2 ID : **37135157432**
Option 3 ID : **37135157430**
Option 4 ID : **37135157431**
Status : **Answered**
Chosen Option : **4**

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Q.48

Which among the following gases is difficult to liquefy ?

Ans

✗ 1. Ammonia

✗ 2. Carbondioxide

✓ 3. Oxygen

✗ 4. Chlorine

Question Type : **MCQ**
Question ID : **37135114390**
Option 1 ID : **37135157559**
Option 2 ID : **37135157560**
Option 3 ID : **37135157557**
Option 4 ID : **37135157558**
Status : **Answered**
Chosen Option : **2**

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Q.49 Gold crystallises in fcc structure with edge length 396 pm, find atomic radius of gold ?

Ans

✗ 1. 198 pm

✗ 2. 714 pm

✓ 3. 140 pm

✗ 4. 162 pm

Question Type : **MCQ**
Question ID : **37135114361**
Option 1 ID : **37135157442**
Option 2 ID : **37135157444**
Option 3 ID : **37135157441**
Option 4 ID : **37135157443**
Status : **Answered**
Chosen Option : **1**

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Q.50 Which of the following salts of same concentration will have same value of van't Hoff factor as that of $K_4[Fe(CN)_6]$?

Ans

✗ 1. Na_2SO_4

✗ 2. $MgSO_4$

✓ 3. $Al_2(SO_4)_3$

✗ 4. $Al(NO_3)_3$

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Question Type : **MCQ**
Question ID : **37135114400**
Option 1 ID : **37135157600**
Option 2 ID : **37135157598**
Option 3 ID : **37135157597**
Option 4 ID : **37135157599**
Status : **Answered**
Chosen Option : **3**

Section : Biology

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

Column-I	Column-II
a) Metacentric	i) Centromere slightly away from the middle of chromosome
b) Sub-metacentric	ii) Centromere at the tip
c) Acrocentric	iii) Centromere in the middle of chromosome.
d) Telocentric	iv) Centromere near the end of chromosome.

Ans

✔ 1.

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

✗ 2.

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

✗ 3.

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

✗ 4.

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

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Question Type : **MCQ**
Question ID : **37135114486**
Option 1 ID : **37135157942**
Option 2 ID : **37135157943**
Option 3 ID : **37135157941**
Option 4 ID : **37135157944**
Status : **Answered**
Chosen Option : **1**

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Q.2 Select the correct match with reference to excretion.

Ans

✗ 1.

Ornithine cycle – uric acid synthesis

✗ 2.

Camel – uricotelic animal

✗ 3.

Low threshold substance – glucose

✓ 4.

High threshold substance – amino acids

Question Type : **MCQ**
Question ID : **37135114473**
Option 1 ID : **37135157891**
Option 2 ID : **37135157892**
Option 3 ID : **37135157889**
Option 4 ID : **37135157890**
Status : **Answered**
Chosen Option : **4**

Q.3 What is the name of disease in which a rice plant grows tall, thin and becomes pale?

Ans

✗ 1. Rust disease

✗ 2.

Hill bunt disease

✓ 3.

Bakane disease

✗ 4.

Black-rot disease

Question Type : **MCQ**
Question ID : **37135114435**
Option 1 ID : **37135157737**
Option 2 ID : **37135157738**
Option 3 ID : **37135157739**
Option 4 ID : **37135157740**
Status : **Answered**
Chosen Option : **3**

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Q.4 The best method to eliminate harmful recessive genes in the technique of animal breeding is _____.

Ans

✗ 1. inter-specific hybridization.

✗ 2. outcrossing

✓ 3. in- breeding

✗ 4. cross-breeding

Question Type : **MCQ**
Question ID : **37135114463**
Option 1 ID : **37135157852**
Option 2 ID : **37135157849**
Option 3 ID : **37135157850**
Option 4 ID : **37135157851**
Status : **Answered**
Chosen Option : **2**

Q.5 The outer chitinous layer of the gemmule of a sponge is secreted by _____.

Ans

✗ 1. choanocytes

✗ 2. interstitial cells

✓ 3. amoebocytes

✗ 4. archaeocytes

Question Type : **MCQ**
Question ID : **37135114471**
Option 1 ID : **37135157884**
Option 2 ID : **37135157883**
Option 3 ID : **37135157882**
Option 4 ID : **37135157881**
Status : **Answered**
Chosen Option : **3**

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Q.6 To get a disease-free plant from a virus infected plant, which one of the following can be used as an explant in tissue culture?

Ans

✗ 1. floral buds

✓ 2. shoot apical meristem

✗ 3. medullary rays

✗ 4. parenchyma from pith

Question Type : **MCQ**
Question ID : **37135114441**
Option 1 ID : **37135157764**
Option 2 ID : **37135157763**
Option 3 ID : **37135157761**
Option 4 ID : **37135157762**
Status : **Answered**
Chosen Option : **2**

Q.7 The tubular, colourless delicate prolongations of epidermal cells are seen in which region of root in plants?

Ans

✗ 1. Cell division

✓ 2. Absorption

✗ 3. Maturation

✗ 4. Cell elongation

Question Type : **MCQ**
Question ID : **37135114450**
Option 1 ID : **37135157798**
Option 2 ID : **37135157800**
Option 3 ID : **37135157797**
Option 4 ID : **37135157799**
Status : **Answered**
Chosen Option : **4**

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Q.8 In human beings, the follicular cells of Graafian follicle secrete_____.

Ans ✗ 1.

human chorionic gonadotropin

✗ 2. relaxin

✗ 3. testosterone

✓ 4. estrogen

Question Type : **MCQ**
Question ID : **37135114462**
Option 1 ID : **37135157845**
Option 2 ID : **37135157848**
Option 3 ID : **37135157847**
Option 4 ID : **37135157846**
Status : **Answered**
Chosen Option : **3**

Q.9 In fishes, _____maximizes oxygen transfer from water into the gills.

Ans ✗ 1.

more permeability for solutes

✗ 2.

more thin membranes of gills

✗ 3.

more number of gills

✓ 4.

counter-current flow

Question Type : **MCQ**
Question ID : **37135114492**
Option 1 ID : **37135157966**
Option 2 ID : **37135157967**
Option 3 ID : **37135157968**
Option 4 ID : **37135157965**
Status : **Answered**
Chosen Option : **2**

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Q.10

The 70S ribosomes occur in one of the following.

Ans

✗ 1.

Bacterial cells, endoplasmic reticulum and mesosome.

✓ 2.

Bacterial cells, mitochondria and chloroplasts.

✗ 3.

Nucleus, mesosome and mitochondrion.

✗ 4.

Chloroplasts, Golgi complex and mitochondria.

Question Type : **MCQ**
Question ID : **37135114497**
Option 1 ID : **37135157987**
Option 2 ID : **37135157985**
Option 3 ID : **37135157988**
Option 4 ID : **37135157986**
Status : **Answered**
Chosen Option : **2**

Q.11 Which one of the following liquor is obtained by fermentation of fruit juices?

Ans

✗ 1. Beer

✗ 2. Whisky

✓ 3. Wine

✗ 4. Rum

Question Type : **MCQ**
Question ID : **37135114446**
Option 1 ID : **37135157781**
Option 2 ID : **37135157782**
Option 3 ID : **37135157783**
Option 4 ID : **37135157784**
Status : **Answered**
Chosen Option : **3**

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Q.12

Select the correct option.

Sub order Anthropoidea includes _____.

i) Lemurs

ii) Lorises and tarsiers

iii) Old and new world monkeys

iv) Apes

v) Man

Ans

1. ✗ ii, iii and iv

2. ✗ ii and iii

3. ✓ iii, iv and v

4. ✗ i and ii

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Question Type : **MCQ**
Question ID : **37135114477**
Option 1 ID : **37135157907**
Option 2 ID : **37135157906**
Option 3 ID : **37135157908**
Option 4 ID : **37135157905**
Status : **Answered**
Chosen Option : **4**

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Q.13

Alcohol abuse shows ill effects on _____ causing its cirrhosis.

Ans

✔ 1. liver

✗ 2. lung

✗ 3. stomach

✗ 4. heart

Question Type : **MCQ**
Question ID : **37135114457**
Option 1 ID : **37135157826**
Option 2 ID : **37135157827**
Option 3 ID : **37135157828**
Option 4 ID : **37135157825**
Status : **Answered**
Chosen Option : **2**

Q.14

Select the INCORRECT statement.

Ans

✔ 1.

DNase gene is employed to treat emphysema.

✗ 2.

Transgenic animals are used for the production of pharmacological compounds to treat PKU.

✗ 3.

The investigation of new treatment of rheumatoid arthritis by transgenic animal is done.

✗ 4.

A vaccine is an antigenic preparation to induce immunity.

Question Type : **MCQ**
Question ID : **37135114500**
Option 1 ID : **37135158000**
Option 2 ID : **37135157999**
Option 3 ID : **37135157997**
Option 4 ID : **37135157998**
Status : **Answered**
Chosen Option : **1**

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Q.15 An iron containing red protein is _____.

Ans ✔ 1. ferredoxin

✗ 2. cytochrome – f

✗ 3. cytochrome b_6

✗ 4. plastocyanin

Question Type : **MCQ**
Question ID : **37135114409**
Option 1 ID : **37135157633**
Option 2 ID : **37135157634**
Option 3 ID : **37135157635**
Option 4 ID : **37135157636**
Status : **Answered**
Chosen Option : **1**

Q.16 Lysosomes are __A__ dense bodies, and originate from __B__.

Ans ✔ 1. A- single membrane bound, B- Golgi apparatus

✗ 2. A-double membrane bound, B- Golgi apparatus

✗ 3. A-double membrane bound, B- endoplasmic reticulum

✗ 4. A-single membrane bound, B- nucleus

Question Type : **MCQ**
Question ID : **37135114470**
Option 1 ID : **37135157880**
Option 2 ID : **37135157877**
Option 3 ID : **37135157879**
Option 4 ID : **37135157878**
Status : **Answered**
Chosen Option : **2**

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Q.17

The first stable compound of C_4 pathway is _____.

Ans

✗ 1. phosphoglyceric acid

✗ 2. 1, 3 diphosphoglyceric acid

✗ 3. oxalosuccinic acid

✓ 4. oxaloacetic acid

Question Type : **MCQ**
Question ID : **37135114402**
Option 1 ID : **37135157605**
Option 2 ID : **37135157608**
Option 3 ID : **37135157607**
Option 4 ID : **37135157606**
Status : **Answered**
Chosen Option : **4**

Q.18 Impairment of Glossopharyngeal nerve will most probably NOT affect _____.

Ans

✓ 1. rotation of eyeball

✗ 2. swallowing

✗ 3. saliva secretion

✗ 4. sense of taste

Question Type : **MCQ**
Question ID : **37135114483**
Option 1 ID : **37135157929**
Option 2 ID : **37135157931**
Option 3 ID : **37135157932**
Option 4 ID : **37135157930**
Status : **Answered**
Chosen Option : **1**

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Q.19 In the first step of PCR technique heating breaks the _____bonds of DNA molecule.

Ans

✔ 1. hydrogen

✗ 2. phospho-di-ester

✗ 3. glycosidic

✗ 4. sugar – phosphate

Question Type : **MCQ**
Question ID : **37135114422**
Option 1 ID : **37135157686**
Option 2 ID : **37135157685**
Option 3 ID : **37135157687**
Option 4 ID : **37135157688**
Status : **Answered**
Chosen Option : **1**

Q.20 In angiosperms the number of female gametes needed for double fertilization is ___.

Ans

✗ 1. 6

✗ 2. 2

✔ 3. 1

✗ 4. 4

Question Type : **MCQ**
Question ID : **37135114403**
Option 1 ID : **37135157609**
Option 2 ID : **37135157611**
Option 3 ID : **37135157612**
Option 4 ID : **37135157610**
Status : **Answered**
Chosen Option : **4**

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Q.21 Discolouration and physical deterioration of buildings and sculptures is due to _____ pollutant in air.

Ans

✔ 1. Sulphur dioxide

✗ 2. Chlorofluorocarbon

✗ 3. Carbon dioxide

✗ 4. Carbon monoxide

Question Type : **MCQ**
Question ID : **37135114479**
Option 1 ID : **37135157915**
Option 2 ID : **37135157916**
Option 3 ID : **37135157913**
Option 4 ID : **37135157914**
Status : **Answered**
Chosen Option : **1**

Q.22 Match the following diseases with their respective causative agents from Column-I and II, and select correct option.

Column-I	Column-II
a) Acute coryza	i) *Wuchereria*
b) Pneumonia	ii) *Microsporum*
c) Dermatophytosis	iii) *Streptococcus*
d) Elephantiasis	iv) Rhino viruses

Ans

✗ 1. a-iii, b-iv, c-ii, d-i

✗ 2. a-iv, b-ii, c-i, d-iii

✗ 3. a-ii, b-iii, c-iv, d-i

✔ 4. a-iv, b-iii, c-ii, d-i

Question Type : **MCQ**
Question ID : **37135114493**
Option 1 ID : **37135157972**
Option 2 ID : **37135157970**
Option 3 ID : **37135157971**
Option 4 ID : **37135157969**
Status : **Answered**
Chosen Option : **4**

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Q.23 What is NOT true about cohesion-tension theory of translocation of water in plants?

Ans

✗ 1.

Transpiration pull is transmitted downward from leaf, stem to root.

✓ 2.

Living cells of roots play an active role and ascent of sap occurs actively.

✗ 3.

There is a force of attraction between water and lignified walls of xylem cells.

✗ 4.

Water molecules have strong mutual attraction so they cannot be easily separated.

Question Type : **MCQ**
Question ID : **37135114430**
Option 1 ID : **37135157720**
Option 2 ID : **37135157719**
Option 3 ID : **37135157718**
Option 4 ID : **37135157717**
Status : **Answered**
Chosen Option : **4**

Q.24 Which group of vitamins given below are water soluble?

Ans

✗ 1. Vitamin A and B

✓ 2. Vitamin B and C

✗ 3. Vitamin E and K

✗ 4. Vitamin C and D

Question Type : **MCQ**
Question ID : **37135114428**
Option 1 ID : **37135157709**
Option 2 ID : **37135157710**
Option 3 ID : **37135157712**
Option 4 ID : **37135157711**
Status : **Answered**
Chosen Option : **2**

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Q.25

Tachycardia means fast heart rate with beats over ____ per minute.

Ans

✗ 1. 60

✗ 2. 95

✓ 3. 100

✗ 4. 75

Question Type : **MCQ**
Question ID : **37135114475**
Option 1 ID : **37135157897**
Option 2 ID : **37135157899**
Option 3 ID : **37135157900**
Option 4 ID : **37135157898**
Status : **Answered**
Chosen Option : **3**

Q.26

The corona radiata present around the female gamete is made up of _____.

Ans

✓ 1. granulosa cells

✗ 2. cortical cells of ovary

✗ 3. cells of theca externa

✗ 4. cells of theca interna

Question Type : **MCQ**
Question ID : **37135114478**
Option 1 ID : **37135157911**
Option 2 ID : **37135157912**
Option 3 ID : **37135157909**
Option 4 ID : **37135157910**
Status : **Answered**
Chosen Option : **3**

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Q.27

Richmond – Lang effect is related with _____.

Ans

✗ 1.

promoting cell division

✗ 2.

apical dominance

✗ 3.

prevention of abscission layer formation

✓ 4.

delaying senescence

Question Type : **MCQ**
Question ID : **37135114401**
Option 1 ID : **37135157602**
Option 2 ID : **37135157601**
Option 3 ID : **37135157603**
Option 4 ID : **37135157604**
Status : **Answered**
Chosen Option : **4**

Q.28

In *Salvia* and *Cestrum*, the pollination is achieved with help of _____.

Ans

✓ 1. insects

✗ 2. wind

✗ 3. bats

✗ 4. birds

Question Type : **MCQ**
Question ID : **37135114419**
Option 1 ID : **37135157675**
Option 2 ID : **37135157676**
Option 3 ID : **37135157674**
Option 4 ID : **37135157673**
Status : **Answered**
Chosen Option : **1**

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Q.29 The correct path of transport of urine is _____.

Ans

✗ 1.

major calyx → minor calyx → collecting duct → renal pelvis

✗ 2.

renal pelvis → minor calyx → major calyx → collecting duct

✗ 3.

collecting duct → major calyx → minor calyx → renal pelvis

✓ 4.

collecting duct → minor calyx → major calyx → renal pelvis

Question Type : **MCQ**
Question ID : **37135114464**
Option 1 ID : **37135157854**
Option 2 ID : **37135157855**
Option 3 ID : **37135157856**
Option 4 ID : **37135157853**
Status : **Answered**
Chosen Option : **3**

Q.30 Identify the correct sequence of steps generally involved in decomposition process from the following.

Ans

✓ 1.

Fragmentation, leaching, catabolism, humification, mineralization

✗ 2.

Fragmentation, catabolism, leaching, humification, mineralization

✗ 3.

Fragmentation, leaching, humification, catabolism, mineralization

✗ 4.

Fragmentation, catabolism, humification, leaching, mineralization

Question Type : **MCQ**
Question ID : **37135114447**
Option 1 ID : **37135157787**
Option 2 ID : **37135157786**
Option 3 ID : **37135157785**
Option 4 ID : **37135157788**
Status : **Answered**
Chosen Option : **3**

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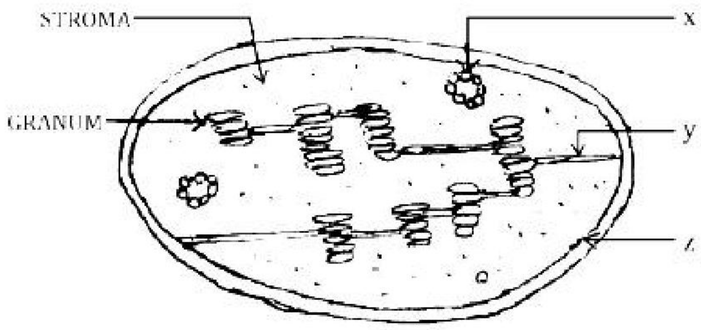
Q.31

Identify the labels correctly in given diagram.



Ans

✗ 1.

x- DNA, y- inner membrane, z- stroma lamellae

✗ 2.

x- stroma lamellae, y- inner membrane, z- DNA

✓ 3.

x- DNA, y- stroma lamellae, z- inner membrane

✗ 4.

x-inner membrane, y- stroma lamellae, z- DNA

Question Type : **MCQ**
Question ID : **37135114439**
Option 1 ID : **37135157756**
Option 2 ID : **37135157754**
Option 3 ID : **37135157755**
Option 4 ID : **37135157753**
Status : **Answered**
Chosen Option : **3**

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Q.32 The enzyme phospho-glycero mutase is involved in which of the following reactions of glycolysis?

Ans

✗ 1. ATP-generation – I

✗ 2. ATP-generation – II

✗ 3. Dehydration

✓ 4. Isomerization

Question Type : **MCQ**
Question ID : **37135114449**
Option 1 ID : **37135157793**
Option 2 ID : **37135157796**
Option 3 ID : **37135157794**
Option 4 ID : **37135157795**
Status : **Answered**
Chosen Option : **4**

Q.33 Two pathways of photophosphorylation i.e cyclic and non-cyclic were suggested by _____.

Ans

✗ 1. Robert Hill

✗ 2. Dr. Calvin

✓ 3. Dr. Arnon

✗ 4. C. Van Neil

Question Type : **MCQ**
Question ID : **37135114420**
Option 1 ID : **37135157677**
Option 2 ID : **37135157679**
Option 3 ID : **37135157678**
Option 4 ID : **37135157680**
Status : **Answered**
Chosen Option : **2**

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Q.34

Aspergillosis is _____disease of poultry.

Ans

✔ 1. fungal

✗ 2. bacterial

✗ 3. protozoan

✗ 4. viral

Question Type : **MCQ**
Question ID : **37135114496**
Option 1 ID : **37135157983**
Option 2 ID : **37135157984**
Option 3 ID : **37135157982**
Option 4 ID : **37135157981**
Status : **Answered**
Chosen Option : **3**

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Q.35 Identify A and B in the following statement.

During vaccine production, toxins are altered to obtain __A__ which acts as an antigen and then mixed with __B__ to improve immune response.

Ans

✗ 1.

A- adjuvant, B- toxoid

✗ 2.

A- diluent, B- adjuvant

✓ 3.

A- toxoid, B- adjuvant

✗ 4.

A- toxoid, B- diluent

Question Type : **MCQ**
Question ID : **37135114474**
Option 1 ID : **37135157896**
Option 2 ID : **37135157893**
Option 3 ID : **37135157895**
Option 4 ID : **37135157894**
Status : **Answered**
Chosen Option : **3**

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Q.36 ANF carries out following functions EXCEPT_____.

Ans

✗ 1. vasodilation

✗ 2. inhibition of renin-angiotensin mechanism

✓ 3. vasoconstriction

✗ 4. promotes sodium excretion

Question Type : **MCQ**
Question ID : **37135114495**
Option 1 ID : **37135157978**
Option 2 ID : **37135157979**
Option 3 ID : **37135157977**
Option 4 ID : **37135157980**
Status : **Answered**
Chosen Option : **4**

Q.37 Total how many ATP molecules are formed by substrate level phosphorylation in glycolysis?

Ans

✗ 1. 8 ATP

✓ 2. 4 ATP

✗ 3. 36 ATP

✗ 4. 2 ATP

Question Type : **MCQ**
Question ID : **37135114412**
Option 1 ID : **37135157648**
Option 2 ID : **37135157647**
Option 3 ID : **37135157645**
Option 4 ID : **37135157646**
Status : **Answered**
Chosen Option : **2**

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Q.38

The nuclear size does NOT depend on _____.

Ans

✗ 1.

volume of the cell

✓ 2. shape of the cell

✗ 3.

amount of proteins

✗ 4.

amount of DNA

Question Type : **MCQ**
Question ID : **37135114487**
Option 1 ID : **37135157945**
Option 2 ID : **37135157948**
Option 3 ID : **37135157947**
Option 4 ID : **37135157946**
Status : **Answered**
Chosen Option : **3**

Q.39

Select the INCORRCET statement.

Ans

✗ 1.

Cardiac activity is regulated by autonomic nerves supply to SA node.

✗ 2.

Conducting gel is applied between electrodes and skin to detect tiny impulses in the record of electrocardiogram.

✓ 3.

QRS complex represents spreading of impulse from SA node to bundle of His, AV node and Purkinje fibres.

✗ 4.

Degeneration of heart muscles may result from factors such as malnutrition, chronic infection etc.

Question Type : **MCQ**
Question ID : **37135114490**
Option 1 ID : **37135157960**
Option 2 ID : **37135157959**
Option 3 ID : **37135157957**
Option 4 ID : **37135157958**
Status : **Answered**
Chosen Option : **1**

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Q.40 In genetic engineering DNA ligase is used for _____.

Ans

✗ 1. polymerase chain reaction.

✗ 2. fragmentation of DNA.

✓ 3. joining the desired gene into vector.

✗ 4. reverse transcription.

Question Type : **MCQ**
Question ID : **37135114415**
Option 1 ID : **37135157660**
Option 2 ID : **37135157658**
Option 3 ID : **37135157659**
Option 4 ID : **37135157657**
Status : **Answered**
Chosen Option : **1**

Q.41 Who suggested the third kingdom Protista?

Ans

✗ 1. R.H. Whittaker

✗ 2. Carl Linnaeus

✓ 3. Haeckel

✗ 4. Carl Woese

Question Type : **MCQ**
Question ID : **37135114440**
Option 1 ID : **37135157760**
Option 2 ID : **37135157758**
Option 3 ID : **37135157757**
Option 4 ID : **37135157759**
Status : **Answered**
Chosen Option : **2**

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Q.42 Which one of the following cross/es did Mendel perform?

Ans ✗ 1.

Both Monohybrid and dihybrid

✓ 2.

Monohybrid, dihybrid and trihybrid

✗ 3.

Monohybrid only

✗ 4.

Dihybrid only

Question Type : **MCQ**
Question ID : **37135114437**
Option 1 ID : **37135157747**
Option 2 ID : **37135157748**
Option 3 ID : **37135157745**
Option 4 ID : **37135157746**
Status : **Answered**
Chosen Option : **1**

Q.43 Which statement is correct regarding spinal nerves in man?

Ans ✗ 1.

They come out of vertebral column through foramen magnum.

✓ 2.

Each spinal nerve is formed within neural canal of vertebral column.

✗ 3.

There are 21 pairs of spinal nerves.

✗ 4.

They are sensory, motor and mixed types.

Question Type : **MCQ**
Question ID : **37135114468**
Option 1 ID : **37135157872**
Option 2 ID : **37135157871**
Option 3 ID : **37135157869**
Option 4 ID : **37135157870**
Status : **Answered**
Chosen Option : **4**

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Q.44

Which one of the following is applicable for t-RNA?

Ans

✔ 1. Folded on itself

✗ 2. Self replicating

✗ 3. Largest molecule

✗ 4. Has two strands

Question Type : **MCQ**
Question ID : **37135114407**
Option 1 ID : **37135157626**
Option 2 ID : **37135157625**
Option 3 ID : **37135157628**
Option 4 ID : **37135157627**
Status : **Answered**
Chosen Option : **1**

Q.45

Goblet cell secretes_____.

Ans

✗ 1. oil

✔ 2. mucous

✗ 3. enzymes

✗ 4. hormones

Question Type : **MCQ**
Question ID : **37135114480**
Option 1 ID : **37135157917**
Option 2 ID : **37135157918**
Option 3 ID : **37135157920**
Option 4 ID : **37135157919**
Status : **Answered**
Chosen Option : **3**

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Q.46 The increase in density of a population depends upon _____.

Ans

✗ 1. high mortality

✓ 2. high natality

✗ 3. low emigration

✗ 4. high emigration

Question Type : **MCQ**
Question ID : **37135114489**
Option 1 ID : **37135157954**
Option 2 ID : **37135157953**
Option 3 ID : **37135157956**
Option 4 ID : **37135157955**
Status : **Answered**
Chosen Option : **2**

Q.47 Farmers have to buy hybrid seeds every year because the characters segregate in the progeny of seeds collected from hybrids. If these hybrids are made to produce _____ seeds, then there will be no segregation of characters.

Ans

✓ 1. apomictic

✗ 2. dicotyledonous hybrid

✗ 3. monocotyledonous hybrid

✗ 4. polyembryonic

Question Type : **MCQ**
Question ID : **37135114433**
Option 1 ID : **37135157730**
Option 2 ID : **37135157732**
Option 3 ID : **37135157731**
Option 4 ID : **37135157729**
Status : **Answered**
Chosen Option : **2**

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Q.48 Water potential of pure water at normal temperature and pressure is _____.

Ans

✔ 1. zero

✗ 2. always more than one

✗ 3. one

✗ 4. less than one

Question Type : **MCQ**
Question ID : **37135114443**
Option 1 ID : **37135157771**
Option 2 ID : **37135157772**
Option 3 ID : **37135157770**
Option 4 ID : **37135157769**
Status : **Answered**
Chosen Option : **1**

Q.49 _____carries the message for formation of polypeptide chain.

Ans

✗ 1. r-RNA

✗ 2. r-DNA

✔ 3. m-RNA

✗ 4. t-RNA

Question Type : **MCQ**
Question ID : **37135114426**
Option 1 ID : **37135157701**
Option 2 ID : **37135157704**
Option 3 ID : **37135157703**
Option 4 ID : **37135157702**
Status : **Answered**
Chosen Option : **3**

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Q.50 When pulses, which are the rich sources of proteins, are used as respiratory substrate then RQ obtained is _____.

Ans

✗ 1. infinity

✗ 2. more than one

✗ 3. one

✓ 4. less than one

Question Type : **MCQ**
Question ID : **37135114405**
Option 1 ID : **37135157620**
Option 2 ID : **37135157618**
Option 3 ID : **37135157617**
Option 4 ID : **37135157619**
Status : **Answered**
Chosen Option : **3**

Q.51 Mark the correct sequence of the layers of testis from inner to outer side.

Ans

✗ 1.
Tunica vaginalis → Tunica albuginea → Tunica vascularis

✗ 2.
Tunica vascularis → Tunica vaginalis → Tunica albuginea

✗ 3.
Tunica vaginalis → Tunica vascularis → Tunica albuginea

✓ 4.
Tunica albuginea → Tunica vascularis → Tunica vaginalis

Question Type : **MCQ**
Question ID : **37135114485**
Option 1 ID : **37135157937**
Option 2 ID : **37135157939**
Option 3 ID : **37135157940**
Option 4 ID : **37135157938**
Status : **Answered**
Chosen Option : **4**

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Q.52 Which one of the following carbohydrates is insoluble in water?

Ans

✔ 1. Cellulose

✗ 2. Glucose

✗ 3. Lactose

✗ 4. Fructose

Question Type : **MCQ**
Question ID : **37135114445**
Option 1 ID : **37135157780**
Option 2 ID : **37135157777**
Option 3 ID : **37135157779**
Option 4 ID : **37135157778**
Status : **Answered**
Chosen Option : **1**

Q.53 The process in which sample DNA and probe DNA form double stranded DNA is called _____.

Ans ✗ 1. electrophoresis

✗ 2. restriction digestion

✔ 3. hybridization

✗ 4. amplification

Question Type : **MCQ**
Question ID : **37135114488**
Option 1 ID : **37135157950**
Option 2 ID : **37135157949**
Option 3 ID : **37135157952**
Option 4 ID : **37135157951**
Status : **Answered**
Chosen Option : **3**

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Q.54 In a cross between tall pea plant with axial flowers and dwarf with terminal flowers following number of pea plants were obtained in the F_2 generation.

Tall with axial flowers = 315

Tall with terminal flowers = 108

Dwarf with axial flowers = 101

Dwarf with terminal flowers = 32

Which cross does it represent?

Ans

✗ 1. Test

✗ 2. Trihybrid

✓ 3. Dihybrid

✗ 4. Monohybrid

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Question Type : **MCQ**
Question ID : **37135114416**
Option 1 ID : **37135157664**
Option 2 ID : **37135157663**
Option 3 ID : **37135157662**
Option 4 ID : **37135157661**
Status : **Answered**
Chosen Option : **2**

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Q.55

Which one of the following is a bacterial herbicide?

Ans

✗ 1.

Alternaria crassa

✓ 2.

Xanthomonas sp.

✗ 3. *Fusarium sp.*

✗ 4.

Bacillus thuringiensis

Question Type : **MCQ**
Question ID : **37135114404**
Option 1 ID : **37135157615**
Option 2 ID : **37135157613**
Option 3 ID : **37135157616**
Option 4 ID : **37135157614**
Status : **Answered**
Chosen Option : **4**

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Q.56

Which one of the following describes best about co-dominance of alleles?

Ans

✗ 1.

one is recessive

✓ 2.

both are dominant

✗ 3.

one is dominant

✗ 4.

both are recessive

Question Type : **MCQ**
Question ID : **37135114406**
Option 1 ID : **37135157622**
Option 2 ID : **37135157623**
Option 3 ID : **37135157621**
Option 4 ID : **37135157624**
Status : **Answered**
Chosen Option : **2**

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Q.57 The first decarboxylation reaction during Krebs cycle occurs in which of the following intermediates.

Ans

✗ 1. Isocitrate

✗ 2. Succinate

✓ 3. Oxalosuccinate

✗ 4. ∝ - ketoglutarate

Question Type : **MCQ**
Question ID : **37135114423**
Option 1 ID : **37135157691**
Option 2 ID : **37135157692**
Option 3 ID : **37135157689**
Option 4 ID : **37135157690**
Status : **Answered**
Chosen Option : **3**

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Q.58 Dwarfism in childhood, such as Frohlic and Lorain dwarfs in humans, develop due to _____.

Ans

✔ 1. hyposecretion of somatotropin

✗ 2. hyposecretion of thyrotropin

✗ 3. hypersecretion of thymosin

✗ 4. hypersecretion of secretin

Question Type : **MCQ**
Question ID : **37135114460**
Option 1 ID : **37135157838**
Option 2 ID : **37135157837**
Option 3 ID : **37135157839**
Option 4 ID : **37135157840**
Status : **Answered**
Chosen Option : **2**

Q.59 In which lichen, rhizines are used for attachment with the substratum?

Ans

✗ 1. Crustose

✔ 2. Foliose

✗ 3. Shruby

✗ 4. Fruticose

Question Type : **MCQ**
Question ID : **37135114448**
Option 1 ID : **37135157789**
Option 2 ID : **37135157790**
Option 3 ID : **37135157792**
Option 4 ID : **37135157791**
Status : **Answered**
Chosen Option : **4**

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Q.60 Which one of the following is NOT a tool in recombinant DNA technology?

Ans

✗ 1. Restriction endonuclease

✓ 2. Prokaryotic nucleoid

✗ 3. Vector

✗ 4. Reverse transcription

Question Type : **MCQ**
Question ID : **37135114444**
Option 1 ID : **37135157773**
Option 2 ID : **37135157776**
Option 3 ID : **37135157775**
Option 4 ID : **37135157774**
Status : **Answered**
Chosen Option : **2**

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Q.61 In human beings, the largest cell formed during oogenesis is _____.

Ans

✔ 1. secondary oocyte

✗ 2. 1st polar body

✗ 3. primordial cell

✗ 4. oogonium

Question Type : **MCQ**
Question ID : **37135114458**
Option 1 ID : **37135157832**
Option 2 ID : **37135157831**
Option 3 ID : **37135157830**
Option 4 ID : **37135157829**
Status : **Answered**
Chosen Option : **1**

Q.62 The sum total of all populations in given habitat is called_____.

Ans

✔ 1. community

✗ 2. biome

✗ 3. biomass

✗ 4. ecosystem

Question Type : **MCQ**
Question ID : **37135114442**
Option 1 ID : **37135157766**
Option 2 ID : **37135157767**
Option 3 ID : **37135157768**
Option 4 ID : **37135157765**
Status : **Answered**
Chosen Option : **1**

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Q.63 The corpuscles which form maximum number in normal total blood count are_____.

Ans
1. erythrocytes
2. eosinophils
3. lymphocytes
4. thrombocytes

Question Type : **MCQ**
Question ID : **37135114455**
Option 1 ID : **37135157820**
Option 2 ID : **37135157819**
Option 3 ID : **37135157818**
Option 4 ID : **37135157817**
Status : **Answered**
Chosen Option : **3**

Q.64 Select the INCORRECT statement.

Ans
1. Haemophilia is caused due to deficiency of VIII and IX clotting factor.
2. Gene for normal clotting is present on non-homologous region of X chromosome.
3. In haemophilia, RBCs are sickle shaped.
4. Carrier female for haemophilia has one recessive gene on X chromosome.

Question Type : **MCQ**
Question ID : **37135114476**
Option 1 ID : **37135157901**
Option 2 ID : **37135157902**
Option 3 ID : **37135157904**
Option 4 ID : **37135157903**
Status : **Answered**
Chosen Option : **3**

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Q.65 During photorespiration oxidation of RUBP by O_2 takes place when _____.

Ans
✔ 1.
temperature is high, light intensity is high and CO_2 conc. is low.

✗ 2.
temperature is low, light intensity is low and CO_2 conc. is low.

✗ 3.
temperature is low, light intensity is high and CO_2 conc. is low.

✗ 4.
temperature is high, light intensity is high and CO_2 conc. is high.

Question Type : **MCQ**
Question ID : **37135114413**
Option 1 ID : **37135157652**
Option 2 ID : **37135157650**
Option 3 ID : **37135157651**
Option 4 ID : **37135157649**
Status : **Answered**
Chosen Option : **1**

Q.66 In somatic reflexes, the effectors are located in _____.

Ans
✗ 1. skin

✗ 2. glands

✗ 3. smooth muscles

✔ 4. skeletal muscles

Question Type : **MCQ**
Question ID : **37135114472**
Option 1 ID : **37135157888**
Option 2 ID : **37135157885**
Option 3 ID : **37135157886**
Option 4 ID : **37135157887**
Status : **Answered**
Chosen Option : **3**

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Q.67 Fertilization process in human beings is specifically due to _____.

Ans

✗ 1.

the simultaneous gametogenesis.

✗ 2.

the same size of gametes.

✓ 3.

the fertilizin – antifertilizin reaction.

✗ 4.

large sized ovum and small sized sperm.

Question Type : **MCQ**
Question ID : **37135114482**
Option 1 ID : **37135157928**
Option 2 ID : **37135157926**
Option 3 ID : **37135157927**
Option 4 ID : **37135157925**
Status : **Answered**
Chosen Option : **3**

Q.68 Presence of coenocytic hyphae and endogenous asexual spores is a characteristic of _____.

Ans

✗ 1. Ascomycetes

✓ 2.

Phycomycetes

✗ 3. Deuteromycetes

✗ 4.

Basidiomycetes

Question Type : **MCQ**
Question ID : **37135114418**
Option 1 ID : **37135157672**
Option 2 ID : **37135157669**
Option 3 ID : **37135157671**
Option 4 ID : **37135157670**
Status : **Answered**
Chosen Option : **4**

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Q.69 Which one of the following is the major reservoir of carbon?

Ans

✔ 1. Ocean

✗ 2. Detritus in soil

✗ 3. Plants and Animals

✗ 4. Atmosphere

Question Type : **MCQ**
Question ID : **37135114436**
Option 1 ID : **37135157742**
Option 2 ID : **37135157744**
Option 3 ID : **37135157743**
Option 4 ID : **37135157741**
Status : **Answered**
Chosen Option : **4**

Q.70 Which one of the following is oldest fossil record in origin of both ape and man?

Ans

✗ 1. *Ramapithecus*

✔ 2. *Propliopithecus*

✗ 3. *Kenyapithecus*

✗ 4. *Dryopithecus*

Question Type : **MCQ**
Question ID : **37135114454**
Option 1 ID : **37135157815**
Option 2 ID : **37135157814**
Option 3 ID : **37135157816**
Option 4 ID : **37135157813**
Status : **Answered**
Chosen Option : **1**

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Q.71 Which of the following is NOT a nutrient in the blood plasma?

Ans

✗ 1. Glycine

✓ 2. Creatinine

✗ 3. Fatty acid

✗ 4. Glucose

Question Type : **MCQ**
Question ID : **37135114469**
Option 1 ID : **37135157873**
Option 2 ID : **37135157874**
Option 3 ID : **37135157875**
Option 4 ID : **37135157876**
Status : **Answered**
Chosen Option : **1**

Q.72 In heterozygous condition both the alleles are expressed in _____.

Ans

✗ 1. diabetes

✓ 2. AB blood group

✗ 3. colour blindness

✗ 4. haemophilia

Question Type : **MCQ**
Question ID : **37135114427**
Option 1 ID : **37135157708**
Option 2 ID : **37135157707**
Option 3 ID : **37135157705**
Option 4 ID : **37135157706**
Status : **Answered**
Chosen Option : **2**

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Q.73 In the nomenclature of restriction endonuclease it is essential to refer name of the_____.

Ans

✗ 1. place

✓ 2. bacterium

✗ 3. author

✗ 4. procedure of its naming

Question Type : **MCQ**
Question ID : **37135114432**
Option 1 ID : **37135157727**
Option 2 ID : **37135157725**
Option 3 ID : **37135157726**
Option 4 ID : **37135157728**
Status : **Answered**
Chosen Option : **3**

Q.74 Injury to medulla oblongata causes sudden death mainly as _____.

Ans

✗ 1. reflex activities like swallowing, vomiting etc. stop.

✓ 2. vital activities such as heart beat and respiration stop.

✗ 3. secretion of cerebrospinal fluid completely stops.

✗ 4. both anterior and posterior choroid plexuses are damaged.

Question Type : **MCQ**
Question ID : **37135114451**
Option 1 ID : **37135157801**
Option 2 ID : **37135157804**
Option 3 ID : **37135157802**
Option 4 ID : **37135157803**
Status : **Answered**
Chosen Option : **2**

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Q.75 Rice variety with five times more _____has been developed.

Ans

✗ 1. tryptophan

✗ 2. vitamin B_{12}

✓ 3. iron

✗ 4. protein

Question Type : **MCQ**
Question ID : **37135114421**
Option 1 ID : **37135157681**
Option 2 ID : **37135157683**
Option 3 ID : **37135157684**
Option 4 ID : **37135157682**
Status : **Answered**
Chosen Option : **4**

Q.76 How many among the sixty four offsprings produced in F_2 generation of a cross between pure black parent and pure white parent for human skin colour will be mulattoes?

Ans

✗ 1. One

✗ 2. Six

✓ 3. Twenty

✗ 4. Fifteen

Question Type : **MCQ**
Question ID : **37135114431**
Option 1 ID : **37135157721**
Option 2 ID : **37135157722**
Option 3 ID : **37135157724**
Option 4 ID : **37135157723**
Status : **Answered**
Chosen Option : **2**

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Q.77

Sex chromosomes of male bird are_____.

Ans

✗ 1. XY

✗ 2. ZW

✗ 3. XX

✓ 4. ZZ

Question Type : **MCQ**
Question ID : **37135114467**
Option 1 ID : **37135157866**
Option 2 ID : **37135157868**
Option 3 ID : **37135157865**
Option 4 ID : **37135157867**
Status : **Answered**
Chosen Option : **4**

Q.78

The site for glycolysis in a cell is_____.

Ans

✗ 1. Golgi body

✗ 2. mitochondria

✗ 3. chloroplast

✓ 4. cytoplasm

Question Type : **MCQ**
Question ID : **37135114425**
Option 1 ID : **37135157700**
Option 2 ID : **37135157697**
Option 3 ID : **37135157698**
Option 4 ID : **37135157699**
Status : **Answered**
Chosen Option : **2**

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Q.79 Small inconspicuous flowers without bright colours but with versatile and exposed anthers are characteristic of _____.

Ans

✗ 1. ornithophily

✗ 2. entomophily

✓ 3. anemophily

✗ 4. chiropterophily

Question Type : **MCQ**
Question ID : **37135114408**
Option 1 ID : **37135157631**
Option 2 ID : **37135157630**
Option 3 ID : **37135157629**
Option 4 ID : **37135157632**
Status : **Answered**
Chosen Option : **4**

Q.80 Which one of the following is an example of predation?

Ans

✗ 1. Remora – shark

✗ 2. Whale – barnacle

✗ 3. Orchid – tree

✓ 4. Tiger – deer

Question Type : **MCQ**
Question ID : **37135114456**
Option 1 ID : **37135157822**
Option 2 ID : **37135157824**
Option 3 ID : **37135157821**
Option 4 ID : **37135157823**
Status : **Answered**
Chosen Option : **4**

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Q.81 A flower with five stamens bearing dithecous anthers has produced total 2560 male gametes. What would be the number of pollen mother cell per microsporangium in this flower?

Ans

✗ 1. 128

✗ 2. 64

✗ 3. 32

✓ 4. 16

Question Type : **MCQ**
Question ID : **37135114429**
Option 1 ID : **37135157716**
Option 2 ID : **37135157715**
Option 3 ID : **37135157714**
Option 4 ID : **37135157713**
Status : **Answered**
Chosen Option : **3**

Q.82 Which of the following does not take place during expiration?

Ans ✗ 1.

Diaphragm becomes dome-shaped.

✗ 2.

Lungs undergo compression to release the air out.

✓ 3.

Volume of the thoracic cavity increases.

✗ 4.

Ribs are pulled inwards.

Question Type : **MCQ**
Question ID : **37135114453**
Option 1 ID : **37135157809**
Option 2 ID : **37135157812**
Option 3 ID : **37135157811**
Option 4 ID : **37135157810**
Status : **Answered**
Chosen Option : **3**

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Q.83

Select the correct statement.

Ans

✗ 1.

Fossils of primitive forms of organisms occupy upper layers of the earth during fossilization.

✓ 2.

Fossils help in understanding the habit of extinct animals.

✗ 3.

Actual remains of fossils are generally formed on land.

✗ 4.

Moulds are the most common type of fossils.

Question Type : **MCQ**
Question ID : **37135114499**
Option 1 ID : **37135157995**
Option 2 ID : **37135157993**
Option 3 ID : **37135157996**
Option 4 ID : **37135157994**
Status : **Answered**
Chosen Option : **2**

Q.84 A two years old malnourished child is under weight, shows stunted growth, anaemia, protruding belly and oedema of lower legs. He is probably suffering from _____disease.

Ans

✗ 1. Jaundice

✓ 2. Kwashiorkor

✗ 3. Marasmus

✗ 4. Constipation

Question Type : **MCQ**
Question ID : **37135114491**
Option 1 ID : **37135157964**
Option 2 ID : **37135157961**
Option 3 ID : **37135157962**
Option 4 ID : **37135157963**
Status : **Answered**
Chosen Option : **1**

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Q.85 Menstrual cycle is found in _____.

Ans

✔ 1. monkeys, apes and human beings.

✗ 2. monkeys and apes.

✗ 3. apes and human beings.

✗ 4. only human beings.

Question Type : **MCQ**
Question ID : **37135114452**
Option 1 ID : **37135157808**
Option 2 ID : **37135157805**
Option 3 ID : **37135157807**
Option 4 ID : **37135157806**
Status : **Answered**
Chosen Option : **4**

Q.86 Reptiles were dominant during _____period.

Ans

✗ 1. Triassic

✔ 2. Jurassic

✗ 3. Cretaceous

✗ 4. Tertiary

Question Type : **MCQ**
Question ID : **37135114465**
Option 1 ID : **37135157859**
Option 2 ID : **37135157858**
Option 3 ID : **37135157857**
Option 4 ID : **37135157860**
Status : **Answered**
Chosen Option : **2**

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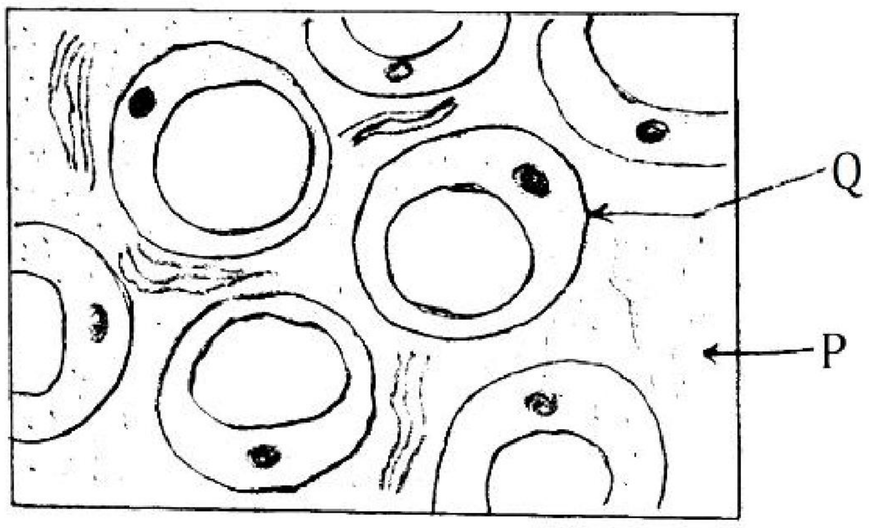
Q.87



In the above diagram, what do the P and Q indicate?

Ans

1.

P- Medulla; Q – Macrophage

2.

P- Cytoplasm; Q – Fibroblast

3.

P- Matrix; Q – Mast cell

4.

P-Matrix; Q – Adipocyte

Question Type : **MCQ**
Question ID : **37135114494**
Option 1 ID : **37135157975**
Option 2 ID : **37135157973**
Option 3 ID : **37135157974**
Option 4 ID : **37135157976**
Status : **Answered**
Chosen Option : **4**

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Q.88 Lysergic acid diethyl amide (LSD) is obtained from _____.

Ans

✗ 1. inflorescence of *Cannabis*

✗ 2. latex of poppy plant

✗ 3. leaves of *Datura* plant

✓ 4. ergot fungus

Question Type : **MCQ**
Question ID : **37135114461**
Option 1 ID : **37135157844**
Option 2 ID : **37135157841**
Option 3 ID : **37135157842**
Option 4 ID : **37135157843**
Status : **Answered**
Chosen Option : **3**

Q.89 The bad taste in monarch butterfly developes _____.

Ans

✗ 1. while pupating

✗ 2. in adult stage

✗ 3. during egg laying

✓ 4. in larval stage

Question Type : **MCQ**
Question ID : **37135114484**
Option 1 ID : **37135157935**
Option 2 ID : **37135157936**
Option 3 ID : **37135157933**
Option 4 ID : **37135157934**
Status : **Answered**
Chosen Option : **4**

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Q.90 Which one of the following is correct for DNA?

Ans

✗ 1. $A+T=G+C$

✗ 2. $A-T=G-C$

✗ 3. $A+C=G+T$

✓ 4. $A+G=T+C$

Question Type : **MCQ**
Question ID : **37135114410**
Option 1 ID : **37135157637**
Option 2 ID : **37135157638**
Option 3 ID : **37135157640**
Option 4 ID : **37135157639**
Status : **Answered**
Chosen Option : **4**

Q.91 Which of the following is NOT the significance of vegetative propagation?

Ans ✓ 1. Variations are caused, which help in evolution.

✗ 2. The yield of plant can be increased by grafting.

✗ 3. Production of clones of economically useful and rare plants.

✗ 4. Easy and cheaper method of multiplication.

Question Type : **MCQ**
Question ID : **37135114438**
Option 1 ID : **37135157751**
Option 2 ID : **37135157750**
Option 3 ID : **37135157749**
Option 4 ID : **37135157752**
Status : **Answered**
Chosen Option : **1**

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Q.92 Select the correct match.

Lymphocyte : antibodies :: Basophil : _____.

Ans

1. heparin

2. fibrin

3. globulin

4. anti-histamine

Question Type : **MCQ**
Question ID : **37135114481**
Option 1 ID : **37135157923**
Option 2 ID : **37135157921**
Option 3 ID : **37135157924**
Option 4 ID : **37135157922**
Status : **Answered**
Chosen Option : **4**

Q.93 A thin delicate membrane surrounding the axon is _____.

Ans

1. neurilemma

2. sarcolemma

3. chromonema

4. nucleolonema

Question Type : **MCQ**
Question ID : **37135114459**
Option 1 ID : **37135157834**
Option 2 ID : **37135157833**
Option 3 ID : **37135157836**
Option 4 ID : **37135157835**
Status : **Answered**
Chosen Option : **3**

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Q.94 Important role played by factors R_1, R_2 and S during protein synthesis is _____.

Ans

✗ 1.

formation of amino acid t-RNA complex

✓ 2.

release of polypeptide chain

✗ 3.

initiation of transcription

✗ 4.

linking codon with anticodon

Question Type : **MCQ**
Question ID : **37135114417**
Option 1 ID : **37135157667**
Option 2 ID : **37135157666**
Option 3 ID : **37135157665**
Option 4 ID : **37135157668**
Status : **Answered**
Chosen Option : **3**

Q.95 The length of DNA segment having 44 base pairs is _____.

Ans

✗ 1. 149.2 A°

✗ 2. 149.3 A°

✗ 3. 149.4 A°

✓ 4. 149.6 A°

Question Type : **MCQ**
Question ID : **37135114434**
Option 1 ID : **37135157736**
Option 2 ID : **37135157735**
Option 3 ID : **37135157734**
Option 4 ID : **37135157733**
Status : **Answered**
Chosen Option : **3**

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Q.96 The boll worms attack _____.

Ans

✗ 1. maize

✗ 2. rice

✗ 3. okra

✓ 4. cotton

Question Type : **MCQ**
Question ID : **37135114414**
Option 1 ID : **37135157653**
Option 2 ID : **37135157654**
Option 3 ID : **37135157655**
Option 4 ID : **37135157656**
Status : **Answered**
Chosen Option : **4**

Q.97 Which one of the following is NOT related to the entry of a pollen tube in an ovule?

Ans

✗ 1. Chalazogamy

✓ 2. Siphonogamy

✗ 3. Mesogamy

✗ 4. Porogamy

Question Type : **MCQ**
Question ID : **37135114424**
Option 1 ID : **37135157696**
Option 2 ID : **37135157694**
Option 3 ID : **37135157695**
Option 4 ID : **37135157693**
Status : **Answered**
Chosen Option : **4**

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Q.98 Match Column – I with Column – II and select the correct option.

Column – I	Column – II
a) outer integument	i) entry of pollen tube
b) synergids	ii) secondary nucleus
c) antipodals	iii) testa
d) polar nuclei	iv) accessory cells

Ans

✗ 1.
a-iii, b-i, c-ii, d-iv

✓ 2.
a-iii, b-i, c-iv, d-ii

✗ 3.
a-iii, b-ii, c-iv, d-i

✗ 4.
a-i, b-ii, c-iii, d-iv

Question Type : **MCQ**
Question ID : **37135114411**
Option 1 ID : **37135157642**
Option 2 ID : **37135157641**
Option 3 ID : **37135157643**
Option 4 ID : **37135157644**
Status : **Answered**
Chosen Option : **2**

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Q.99

Liver is located on _____ in the human body.

Ans

✗ 1.

left side below stomach

✗ 2.

right side below spleen

✗ 3.

left side below kidney

✓ 4.

right side below diaphragm

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Question Type : **MCQ**
Question ID : **37135114498**
Option 1 ID : **37135157989**
Option 2 ID : **37135157992**
Option 3 ID : **37135157990**
Option 4 ID : **37135157991**
Status : **Answered**
Chosen Option : **4**

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Q.100 Which of the following is regarded as the pregnancy hormone?

Ans

✗ 1. FSH

✗ 2. ACTH

✗ 3. Estrogen

✓ 4. Progesterone

Question Type : **MCQ**
Question ID : **37135114466**
Option 1 ID : **37135157864**
Option 2 ID : **37135157863**
Option 3 ID : **37135157862**
Option 4 ID : **37135157861**
Status : **Answered**
Chosen Option : **4**

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