Section : Physics

Q.1 When a certain photosensitive surface is illuminated with monochromatic light of frequency 'ν', the stopping potential for photoelectric current is $\frac{V_0}{3}$. When the same surface is illuminated by monochromatic light of frequency '$\nu/3$' the stopping potential is 'V_0'. The threshold frequency for photoelectric emission is

Ans

✗ 1. $\frac{3v}{5}$

✗ 2. $\frac{2v}{3}$

✗ 3. $\frac{3v}{2}$

✓ 4. $\frac{4v}{3}$

Question Type : **MCQ**
Question ID : **292995260**
Option 1 ID : **2929951039**
Option 2 ID : **2929951037**
Option 3 ID : **2929951038**
Option 4 ID : **2929951040**
Status : **Answered**
Chosen Option : **2**

Q.2 Which one of the following is NOT correct?

Ans ✗ 1. A real, inverted and same size image can be obtained by using concave mirror

✓ 2. A real, inverted and same size image can be obtained by using convex mirror

✗ 3. the size of the image formed by convex mirror is always smaller than size of the object

✗ 4. A virtual, erect, magnified image can be obtained by using concave mirror.

Question Type : **MCQ**

ZOLLEGE.in

Option 1 ID : **2929951128**
Option 2 ID : **2929951126**
Option 3 ID : **2929951127**
Option 4 ID : **2929951125**
Status : **Answered**
Chosen Option : **1**

Q.3 A galvanometer of resistance 100Ω is connected to a battery of 2V with a resistance of 1900Ω in series. The deflection obtained is 30 divisions. To reduce this deflection by 10 divisions the additional resistance required to be connected in series is

Ans
✗ 1. 1500Ω
✗ 2. 500Ω
✓ 3. 1000Ω
✗ 4. 2000Ω

Question Type : **MCQ**
Question ID : **292995295**
Option 1 ID : **2929951179**
Option 2 ID : **2929951177**
Option 3 ID : **2929951178**
Option 4 ID : **2929951180**
Status : **Answered**
Chosen Option : **1**

Q.4 A transverse wave is travelling on a string with velocity 'V'. The extension in the string is 'x'. If the string is extended by 50%, then the speed of wave along the string will be nearly (Hooke's law is obeyed)

Ans
✓ 1. $1.22\,V$
✗ 2. $\frac{V}{1.5}$
✗ 3. $\frac{V}{1.22}$
✗ 4. $1.5\,V$

Question Type : **MCQ**
Question ID : **292995279**
Option 1 ID : **2929951115**
Option 2 ID : **2929951114**
Option 3 ID : **2929951113**
Option 4 ID : **2929951116**
Status : **Answered**
Chosen Option : **2**

Q.5

Glass has refractive index $\frac{3}{2}$ and water has refractive index $\frac{4}{3}$. If the speed of light in glass is 2×10^8 m/s, then the speed of light in water will be

Ans
✗ 1. 1.6×10^8 m/s

ZOLLEGE.in

2. 2.25×10^{8} m/s

3. 1.8×10^{8} m/s

4. 2×10^{8}m/s

Question Type : MCQ
Question ID : 292995287
Option 1 ID : 2929951148
Option 2 ID : 2929951145
Option 3 ID : 2929951147
Option 4 ID : 2929951146
Status : Answered
Chosen Option : 3

Q.6 If the errors involved in the measurements of a side and mass of a cube are 2% and 4% respectively, what is the maximum permissible error in the density of the material ?

Ans

1. 8 %

2. 4 %

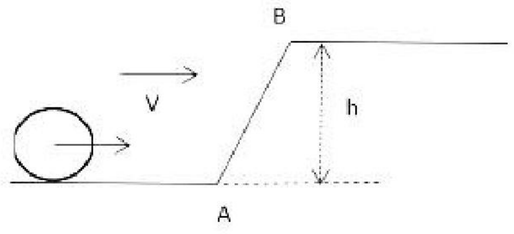
3. 6 %

4. 10 %

Question Type : MCQ
Question ID : 292995297
Option 1 ID : 2929951186
Option 2 ID : 2929951188
Option 3 ID : 2929951187
Option 4 ID : 2929951185
Status : Answered
Chosen Option : 3

Q.7

A solid sphere is rolling down a frictionless surface with translational velocity 'V'. It climbs the inclined plane from 'A' to 'B' and then moves away from 'B' on the smooth horizontal surface. The value of 'V' should be



Ans

1. $\sqrt{gh}$

2. $\geq \left[\frac{10gh}{7}\right]^{1/2}$

Z@LLEGE.in

✗ 3. $> \sqrt{2gh}$

✗ 4. $\frac{10gh}{7}$

Question Type : MCQ
Question ID : 292995270
Option 1 ID : 2929951080
Option 2 ID : 2929951078
Option 3 ID : 2929951079
Option 4 ID : 2929951077
Status : Answered
Chosen Option : 1

Q.8 A wall is hit elastically and normally by 'n' balls per second. If 'm' is the mass and 'u' is velocity for each molecule, the force exerted by the balls on the wall is

Ans
✓ 1. $2mnu$

✗ 2. $\frac{mnu}{2}$

✗ 3. mnu

✗ 4. mnu^2

Z@LLEGE.in

Question Type : MCQ
Question ID : 292995269
Option 1 ID : 2929951075
Option 2 ID : 2929951073
Option 3 ID : 2929951074
Option 4 ID : 2929951076
Status : Answered
Chosen Option : 2

Q.9 If two non-zero vectors $\vec{P}$ and $\vec{Q}$ are perpendicular to each other then the magnitude of their vector product is $(\sin 90^\circ = \cos 0^\circ = 1)$

Ans
✗ 1. Q^2/P

✓ 2. PQ

✗ 3. $\sqrt{QP}$

✗ 4. P^2/Q

Question Type : MCQ
Question ID : 292995299
Option 1 ID : 2929951195
Option 2 ID : 2929951194
Option 3 ID : 2929951196
Option 4 ID : 2929951193

ZOLLEGE.in

Status : **Answered**
Chosen Option : **2**

Q.1 0 If the telecast is to cover a range of 64km, the height of TV tower should be (Radius of earth,R=6400Km)

Ans
- ✗ 1. 100m
- ✗ 2. 140m
- ✓ 3. 320m
- ✗ 4. 280m

Question Type : **MCQ**
Question ID : **292995259**
Option 1 ID : **2929951033**
Option 2 ID : **2929951034**
Option 3 ID : **2929951036**
Option 4 ID : **2929951035**
Status : **Answered**
Chosen Option : **4**

Q.1 1 The excess of pressure inside a soap bubble is twice the excess of pressure inside another soap bubble. The volume of first bubble is 'n' times the volume of second bubble. The value of 'n' must be

Ans
- ✓ 1. 0.125
- ✗ 2. 0.25
- ✗ 3. 2
- ✗ 4. 0.5

Question Type : **MCQ**
Question ID : **292995298**
Option 1 ID : **2929951192**
Option 2 ID : **2929951191**
Option 3 ID : **2929951189**
Option 4 ID : **2929951190**
Status : **Answered**
Chosen Option : **2**

Q.1 2 Acceleration due to gravity at height 'h' above the surface of the earth is (R=Radius of the earth)

Ans
- ✗ 1. $\frac{gR^2}{(R-h)^2}$
- ✗ 2. $g\left(1-\frac{h}{R}\right)$
- ✓ 3. $\frac{gR^2}{(R+h)^2}$

Z@LLEGE.in

✗ 4. $\frac{gR}{(R+h)^2}$

Question Type : MCQ
Question ID : 292995288
Option 1 ID : 2929951152
Option 2 ID : 2929951149
Option 3 ID : 2929951150
Option 4 ID : 2929951151
Status : Answered
Chosen Option : 4

Q.1 3 When an a.c. source is connected across a pure inductor of self inductance (L) then e.m.f. induced in it

Ans

✓ 1. leads the current by phase $\left(\frac{\pi}{2}\right)^c$

✗ 2. lags behind the current by phase $\left(\frac{\pi}{2}\right)^c$

✗ 3. lags behind the current by phase $\left(\frac{\pi}{4}\right)^c$

✗ 4. leads the current by phase $\left(\pi/4\right)^c$

Question Type : MCQ
Question ID : 292995275
Option 1 ID : 2929951097
Option 2 ID : 2929951098
Option 3 ID : 2929951100
Option 4 ID : 2929951099
Status : Answered
Chosen Option : 1

Q.1 4 If angular momentum of a rotating body about a fixed axis is increased by 10%, its rotational kinetic energy will be increased by

Ans

✗ 1. 5%

✗ 2. 20%

✓ 3. 21%

✗ 4. 10%

Question Type : MCQ

ZOLLEGE.in

Question ID : **292995290**
Option 1 ID : **2929951157**
Option 2 ID : **2929951159**
Option 3 ID : **2929951160**
Option 4 ID : **2929951158**
Status : **Answered**
Chosen Option : **2**

Q.15 A point source is placed in air. The spherical wavefront has radius 'r_a' after time 't'. If the same point source is placed in the medium of refractive index 'μ', the radius of spherical wavefront in the medium in same time t is

Ans

✔ 1. $\frac{r_a}{\mu}$..

✗ 2. $\frac{r_a}{\mu^2}$.

✗ 3. $\mu.r_a$

✗ 4. $\mu^2 r_a$

Question Type : **MCQ**
Question ID : **292995281**
Option 1 ID : **2929951123**
Option 2 ID : **2929951124**
Option 3 ID : **2929951121**
Option 4 ID : **2929951122**
Status : **Answered**
Chosen Option : **1**

Q.16 In a cyclotron the time required by positive ion to traverse semicircle does NOT depend upon

Ans

✗ 1. mass of the particle.

✔ 2. velocity of the particle.

✗ 3. strength of magnetic field.

✗ 4. charge of the particle.

Question Type : **MCQ**
Question ID : **292995261**
Option 1 ID : **2929951043**
Option 2 ID : **2929951042**
Option 3 ID : **2929951044**
Option 4 ID : **2929951041**
Status : **Answered**
Chosen Option : **2**

Q.17 From the position of smaller angular displacement 'Θ', the bob of simple pendulum of length 'L' is released then its linear displacement at time 't' is

Ans

✗ 1. $x = L\,\theta \cos 2\pi \sqrt{\frac{g}{L}}\,t$

ZOLLEGE.in

2. $x = L\,\theta \cos \sqrt{\frac{g}{L}}\,t$

3. $x = \theta \sin 2\pi \sqrt{\frac{L}{g}}\,t$

4. $x = L\,\theta \sin \sqrt{\frac{g}{L}}\,t$

Question Type : **MCQ**
Question ID : **292995256**
Option 1 ID : **2929951023**
Option 2 ID : **2929951022**
Option 3 ID : **2929951021**
Option 4 ID : **2929951024**
Status : **Answered**
Chosen Option : **3**

Q.18 The magnitude of the induced e.m.f. produced in the coil when a magnet is inserted into it does 'NOT' depend upon the

Ans
1. speed of approach of the magnet.
2. magnetic moment of the magnet.
3. number of turns of the coil.
4. resistance of the coil.

Question Type : **MCQ**
Question ID : **292995252**
Option 1 ID : **2929951008**
Option 2 ID : **2929951007**
Option 3 ID : **2929951005**
Option 4 ID : **2929951006**
Status : **Answered**
Chosen Option : **1**

Q.19 The mass and radius of earth is M_e and R_e respectively and that of moon is M_m and R_m respectively. The distance between the centre of earth and that of moon is 'D'. The minimum speed required for a body (mass 'm') to project from a point midway between their centres to escape to infinity is

Ans

1. $\left(\frac{GD}{M_e}\right)^{1/2}$

2. $\sqrt{\frac{(M_e + M_m)}{D}}$

3. $2\sqrt{G(M_e + M_m)/D}$

ZOLLEGE.in

✗ 4. $\frac{G(M_e + M_m)}{2D}$

Question Type : MCQ
Question ID : 292995253
Option 1 ID : 2929951012
Option 2 ID : 2929951010
Option 3 ID : 2929951009
Option 4 ID : 2929951011
Status : Answered
Chosen Option : 4

Q.20 The rate of cooling of a body is 2 ^{0}C/min when the body is at 50 ^{0}C above the temperature of surroundings. When the body is at 30 ^{0}C above the temperature of surroundings, its rate of cooling will be

Ans
✗ 1. 0.6 ^{0}C/min
✗ 2. 0.9 ^{0}C/min
✓ 3. 1.2 ^{0}C/min
✗ 4. 1.5 ^{0}C/min

Question Type : MCQ
Question ID : 292995262
Option 1 ID : 2929951048
Option 2 ID : 2929951047
Option 3 ID : 2929951046
Option 4 ID : 2929951045
Status : Answered
Chosen Option : 3

Q.21 A charge 'q' is enclosed by a Gaussian spherical surface of radius 'R'. If, now, radius of the spherical surface is doubled the outward electric flux will

Ans
✗ 1. doubled
✓ 2. remain same
✗ 3. increase four times
✗ 4. reduce to half

Question Type : MCQ
Question ID : 292995283
Option 1 ID : 2929951131
Option 2 ID : 2929951132
Option 3 ID : 2929951130
Option 4 ID : 2929951129
Status : Answered
Chosen Option : 3

Q.22 When an npn transistor is used as an amplifier

Ans
✓ 1. electrons move from base to collector.
✗ 2. holes move from emitter to base.
✗ 3. electrons move from collector to base.
✗ 4. holes move from base to collector.

ZOLLEGE.in

Question Type : **MCQ**
Question ID : **292995254**
Option 1 ID : **2929951013**
Option 2 ID : **2929951016**
Option 3 ID : **2929951014**
Option 4 ID : **2929951015**
Status : **Answered**
Chosen Option : **1**

Q.23 A capillary tube is dipped in water, the water rises in it to a height 'h'. If 'r' is the radius of bore of tube then

Ans
✗ 1. $h \propto r^2$

✓ 2. $h \propto {}^{1}/_{r}$

✗ 3. $h \propto r$

✗ 4. $h \propto {}^{1}/_{r^2}$

Question Type : **MCQ**
Question ID : **292995294**
Option 1 ID : **2929951175**
Option 2 ID : **2929951174**
Option 3 ID : **2929951173**
Option 4 ID : **2929951176**
Status : **Answered**
Chosen Option : **3**

Q.24 A particle performs simple harmonic motion from mean position, with period 8 s. The distance travelled by it between 1st and 2nd second of its motion is (A = amplitude of S. H. M.)

Ans
✗ 1. $A\frac{1}{2}$

✗ 2. $A\left(\frac{1}{\sqrt{2}}-1\right)$

✓ 3. $A\left(1-\frac{1}{\sqrt{2}}\right)$

✗ 4. $A\left(\frac{1}{\sqrt{2}}\right)$

Question Type : **MCQ**
Question ID : **292995292**
Option 1 ID : **2929951168**
Option 2 ID : **2929951165**
Option 3 ID : **2929951167**
Option 4 ID : **2929951166**
Status : **Answered**
Chosen Option : **3**

ZOLLEGE.in

Q.2 5 Which of the following statements is NOT true for a particle moving in circle with a constant angular speed?

Ans
✔ 1. The radial acceleration vector is tangent to the circle.

✗ 2. The linear velocity vector is tangent to the circle.

✗ 3. The radial acceleration vector points towards the centre of the circle.

✗ 4. The linear velocity and radial acceleration vectors at a point are perpendicular to each other.

Question Type : **MCQ**
Question ID : **292995277**
Option 1 ID : **2929951106**
Option 2 ID : **2929951105**
Option 3 ID : **2929951107**
Option 4 ID : **2929951108**
Status : **Answered**
Chosen Option : **2**

Q.2 6 A sonometer wire of length 'L_1' is in unison with a tuning fork of frequency 'n'. When the vibrating length of the wire is reduced to 'L_2', it produces 'x' beats per second with the fork. The frequency of the fork is

Ans
✗ 1. $\frac{L_1 x}{L_2 - L_1}$

✗ 2. $\frac{L_1 x}{L_1 - L_2}$

✗ 3. $\frac{L_2 x}{L_2 - L_1}$

✔ 4. $\frac{L_2 x}{L_1 - L_2}$

Question Type : **MCQ**
Question ID : **292995264**
Option 1 ID : **2929951056**
Option 2 ID : **2929951054**
Option 3 ID : **2929951055**
Option 4 ID : **2929951053**
Status : **Answered**
Chosen Option : **3**

Q.2 7 The innermost orbit of the hydrogen atom has a diameter of 1.06 Å , the diameter of the tenth orbit is

Ans
✗ 1. 53 Å

✗ 2. 5.3 Å

✔ 3. 106 Å

✗ 4. 10.6 Å

Question Type : **MCQ**
Question ID : **292995286**

Z@LLEGE.in

Option 1 ID : **2929951143**
Option 2 ID : **2929951142**
Option 3 ID : **2929951141**
Option 4 ID : **2929951144**
Status : **Answered**
Chosen Option : **4**

Q.28 Two vibrating tuning forks produce waves which are represented by $Y_1=4 \sin 500\pi t$ and $Y_2=4 \sin 506\pi t$. The number of beats produced per minute by these two waves is

Ans
✗ 1. 60
✓ 2. 180
✗ 3. 360
✗ 4. 3

Question Type : **MCQ**
Question ID : **292995271**
Option 1 ID : **2929951083**
Option 2 ID : **2929951082**
Option 3 ID : **2929951081**
Option 4 ID : **2929951084**
Status : **Answered**
Chosen Option : **2**

Q.29 Dimensions of magnetic intensity are

Ans
✓ 1. $[L^{-1}M^{0}T^{0}I^{1}]$
✗ 2. $[L^{-1}M^{0}T^{0}I^{-1}]$
✗ 3. $[L^{1}M^{0}T^{0}I^{-1}]$
✗ 4. $[L^{-1}M^{1}T^{1}I^{-1}]$

Question Type : **MCQ**
Question ID : **292995272**
Option 1 ID : **2929951085**
Option 2 ID : **2929951087**
Option 3 ID : **2929951086**
Option 4 ID : **2929951088**
Status : **Answered**
Chosen Option : **1**

Q.30 The S.I. unit of impulse is the same as that of

Ans
✗ 1. linear velocity.
✗ 2. angular velocity.
✓ 3. linear momentum.
✗ 4. angular momentum.

Question Type : **MCQ**
Question ID : **292995257**
Option 1 ID : **2929951028**

ZOLLEGE.in

Option 2 ID : **2929951027**
Option 3 ID : **2929951026**
Option 4 ID : **2929951025**
Status : **Answered**
Chosen Option : **4**

Q.3 1 Half-lives of two radioactive elements A and B are 20 minute and 40 minute respectively. Initially the samples have equal nuclei. After 80 minute, the ratio of decayed number of A and B nuclei will be

Ans
✗ 1. 1:4
✓ 2. 5:4
✗ 3. 1:16
✗ 4. 4:1

Question Type : **MCQ**
Question ID : **292995265**
Option 1 ID : **2929951058**
Option 2 ID : **2929951059**
Option 3 ID : **2929951057**
Option 4 ID : **2929951060**
Status : **Answered**
Chosen Option : **1**

Q.3 2 In Biprism experiment the distance between the two virtual images of the slits in the magnified and diminished position are 2.4 mm and 0.6 mm respectively. The distance between two coherent sources is

Ans
✗ 1. 1 mm
✗ 2. 3.0 mm
✓ 3. 1.2 mm
✗ 4. 2.4 mm

Question Type : **MCQ**
Question ID : **292995255**
Option 1 ID : **2929951017**
Option 2 ID : **2929951020**
Option 3 ID : **2929951018**
Option 4 ID : **2929951019**
Status : **Answered**
Chosen Option : **2**

Q.3 3 A conical pendulum has bob of mass of 250g and a length of 1m. If the horizontal circle traced by the bob has a diameter of 120cm, then the tension in the string would be nearly ($g=9.8m/s^2$)

Ans
✗ 1. 3.160N
✗ 2. 2.980N
✗ 3. 2.920N
✓ 4. 3.062N

Question Type : **MCQ**
Question ID : **292995258**
Option 1 ID : **2929951029**
Option 2 ID : **2929951031**
Option 3 ID : **2929951032**
Option 4 ID : **2929951030**
Status : **Answered**

ZOLLEGE.in

Chosen Option : 3

Q.3 4 $'M'$ kg weight is suspended from a weightless spring and it has period $'T'$. If now $'4m'$ kg weight is suspended from the same spring, the new period will be

Ans

✗ 1. $\frac{T}{2}$

✓ 2. $2T$

✗ 3. $4T$

✗ 4. T

Question Type : MCQ
Question ID : 292995280
Option 1 ID : 2929951117
Option 2 ID : 2929951119
Option 3 ID : 2929951120
Option 4 ID : 2929951118
Status : Answered
Chosen Option : 3

Q.3 5 Bending of beam can be reduced by using

Ans

✓ 1. a material with large value of Young's modulus.

✗ 2. small value of the depth of the bar

✗ 3. large value of the length of the beam.

✗ 4. small value of the breadth of the bar

Question Type : MCQ
Question ID : 292995284
Option 1 ID : 2929951133
Option 2 ID : 2929951136
Option 3 ID : 2929951134
Option 4 ID : 2929951135
Status : Answered
Chosen Option : 4

Q.3 6 In the formula for high resolving power microscope, the numerical aperture of the object of the microscope is given as
(μ = refractive index of oil and angle made by the object at the aperture = 2α)

Ans

✗ 1. $2\mu\sin^2\alpha$

✗ 2. $2\mu^2\sin^2\alpha$

✗ 3. $2\mu^2\sin\alpha$

✓ 4. $\mu\sin\alpha$

Question Type : MCQ
Question ID : 292995300
Option 1 ID : 2929951200
Option 2 ID : 2929951198

ZOLLEGE.in

Option 3 ID : **2929951197**
Option 4 ID : **2929951199**
Status : **Answered**
Chosen Option : **1**

Q.37 A charged capacitor has charge 'Q_1' at potential 'V_1'. The charge on capacitor is increased to 'Q_2' so that its potential increases to V_2, then the difference between final and initial energy stored in capacitor is

Ans

✗ 1. $\frac{1}{2}(Q_2 - Q_1)(V_2 - V_1)$

✓ 2. $\frac{1}{2}(Q_2V_2 - Q_1V_1)$

✗ 3. $\frac{1}{2}\left(\frac{Q_2^2}{V_2} - \frac{Q_1^2}{V_1}\right)$

✗ 4. $\frac{1}{2}(Q_2V_2^2 - Q_1V_1^2)$

Question Type : **MCQ**
Question ID : **292995278**
Option 1 ID : **2929951109**
Option 2 ID : **2929951110**
Option 3 ID : **2929951112**
Option 4 ID : **2929951111**
Status : **Answered**
Chosen Option : **3**

Q.38 The component of the vector $\vec{P} = \hat{i}P_x + \hat{j}P_y + \hat{k}P_z$ along the direction of $(\hat{i} - \hat{j})$ is

Ans

✗ 1. $P_x + P_y - Pz$

✗ 2. $P_x - P_y$

✓ 3. $\frac{P_x - P_y}{\sqrt{2}}$

✗ 4. $\frac{P_x + P_y}{\sqrt{2}}$

Question Type : **MCQ**
Question ID : **292995267**
Option 1 ID : **2929951067**
Option 2 ID : **2929951068**
Option 3 ID : **2929951065**
Option 4 ID : **2929951066**
Status : **Answered**

Z@LLEGE.in

ZOLLEGE.in

Chosen Option : 1

Q.3 9 Two long, straight wires are set parallel to each other. Both the wires carry a current 'I' in opposite directions and separation between them is '$2R$'. The magnetic induction at the midway between them is (μ_0 = permeability of free space)

Ans
1. $zero$
2. $\frac{\mu_0 I}{4\pi r}$
3. $\frac{\mu_0 I}{\pi r}$
4. $\frac{\mu_0 I}{2\pi r}$

Question Type : MCQ
Question ID : 292995276
Option 1 ID : 2929951101
Option 2 ID : 2929951102
Option 3 ID : 2929951104
Option 4 ID : 2929951103
Status : Answered
Chosen Option : 3

Q.4 0 A metal surface ejects electrons when irradiated by blue light, but not when irradiated by green light. The electrons will also be ejected by the surface, when irradiated by

Ans
1. red light
2. voilet light
3. orange light
4. yellow light

Question Type : MCQ
Question ID : 292995289
Option 1 ID : 2929951155
Option 2 ID : 2929951153
Option 3 ID : 2929951154
Option 4 ID : 2929951156
Status : Answered
Chosen Option : 2

Q.4 1 The ratio of magnetic induction along the axis to magnetic induction along the equator of a bar magnet for a point at the same distance (r) from the centre of magnet is

Ans
1. 1:2
2. 2:1
3. $\sqrt{2}:1$
4. 4:1

Question Type : MCQ
Question ID : 292995273
Option 1 ID : 2929951090

ZOLLEGE.in

Option 2 ID : **2929951089**
Option 3 ID : **2929951092**
Option 4 ID : **2929951091**
Status : **Answered**
Chosen Option : **2**

Q.4 The ratio of magnetization and magnetic intensity is called
2

Ans
✗ 1. permeability
✗ 2. magnetic induction
✓ 3. magnetic susceptibility
✗ 4. gyromagnetic ratio

Question Type : **MCQ**
Question ID : **292995291**
Option 1 ID : **2929951162**
Option 2 ID : **2929951161**
Option 3 ID : **2929951163**
Option 4 ID : **2929951164**
Status : **Answered**
Chosen Option : **2**

Q.4 The sequence of harmonics of a pipe open at one end and closed at the other end is 250Hz and
3 350Hz. The resonating length of the air column in its fundamental mode will be (velocity of sound in air= 340m/s)

Ans
✗ 1. 1.8m
✗ 2. 1.6m
✓ 3. 1.7m
✗ 4. 1.4m

Question Type : **MCQ**
Question ID : **292995251**
Option 1 ID : **2929951004**
Option 2 ID : **2929951002**
Option 3 ID : **2929951003**
Option 4 ID : **2929951001**
Status : **Answered**
Chosen Option : **2**

Q.4 In case of Light Emitting Diode (LED) light is emitted due to
4

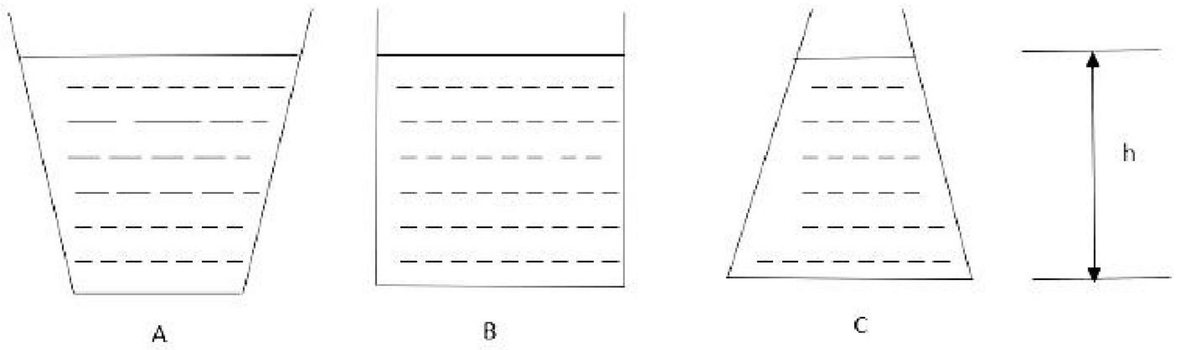
Ans
✓ 1. recombination of holes and electrons.
✗ 2. emission of holes and electrons.
✗ 3. diffusion of holes.
✗ 4. drifting of electrons.

Question Type : **MCQ**
Question ID : **292995274**
Option 1 ID : **2929951095**
Option 2 ID : **2929951093**
Option 3 ID : **2929951096**
Option 4 ID : **2929951094**
Status : **Answered**
Chosen Option : **1**

ZOLLEGE.in

Q.4
5

Three vessels A, B, C of different shapes have same base area and are filled with water up to same height 'h'. The respective forces exerted by water on the bases are 'F_A','F_B','F_C' and respective weights are 'W_A','W_B','W_C'. Then



Ans
✗ 1. $F_A < F_B < F_C$; $W_A < W_B > W_C$

✓ 2. $F_A = F_B = F_C$; $W_A > W_B > W_C$

✗ 3. $F_A = F_B = F_C$; $W_A < W_B < W_C$

✗ 4. $F_A > F_B > F_C$; $W_A > W_B < W_C$

Question Type : **MCQ**
Question ID : **292995293**
Option 1 ID : **2929951172**
Option 2 ID : **2929951170**
Option 3 ID : **2929951171**
Option 4 ID : **2929951169**
Status : **Answered**
Chosen Option : **4**

Q.4
6

A wire suspended vertically is stretched by 1mm, when mass of 4kg is attached to the lower end. Energy gained by the wire is (Take g=10m/s^2)

Ans
✗ 1. 0.01 J

✓ 2. 0.02 J

✗ 3. 0.03 J

✗ 4. 0.04 J

Question Type : **MCQ**
Question ID : **292995296**
Option 1 ID : **2929951181**
Option 2 ID : **2929951182**
Option 3 ID : **2929951183**
Option 4 ID : **2929951184**
Status : **Answered**
Chosen Option : **3**

Q.4
7

Work done by the force on the body is the measure of the change in its

Ans
✗ 1. momentum.

✗ 2. mass.

✗ 3. potential energy.

✓ 4. kinetic energy.

Question Type : **MCQ**

ZOLLEGE.in

Question ID : **292995266**
Option 1 ID : **2929951064**
Option 2 ID : **2929951063**
Option 3 ID : **2929951062**
Option 4 ID : **2929951061**
Status : **Answered**
Chosen Option : **3**

Q.48 The dimensions of angular momentum are

Ans
✔ 1. $[L^2M^1T^{-1}]$

✗ 2. $[L^2M^2T^{-2}]$

✗ 3. $[L^2M^1T^1]$

✗ 4. $[L^2M^1T^{-2}]$

Question Type : **MCQ**
Question ID : **292995263**
Option 1 ID : **2929951050**
Option 2 ID : **2929951052**
Option 3 ID : **2929951051**
Option 4 ID : **2929951049**
Status : **Answered**
Chosen Option : **1**

Q.49 When a resistance 'R_1' is connected across the terminal of a cell of e.m.f. 'E_1' the current is 'I_1'. When the resistance is changed to 'R_2' the current is 'I_2'. The internal resistance of the cell is

Ans
✗ 1. $\frac{I_1R_2 + I_2R_1}{I_1 + I_2}$

✗ 2. $\frac{I_2R_2 + I_1R_1}{I_1 + I_2}$

✔ 3. $\frac{I_2R_2 - I_1R_1}{I_1 - I_2}$

✗ 4. $\frac{I_1R_2 - I_2R_1}{I_1 - I_2}$

Question Type : **MCQ**
Question ID : **292995285**
Option 1 ID : **2929951139**
Option 2 ID : **2929951140**
Option 3 ID : **2929951138**
Option 4 ID : **2929951137**
Status : **Answered**
Chosen Option : **3**

ZOLLEGE.in

Q.5 In potentiometer experiment, the potential gradient can be increased by
0

Ans
✗ 1. increasing the cross-sectional area of the potentiometer wire.

✗ 2. using a wire of material of low specific resistance.

✓ 3. decreasing the cross-sectional area of the potentiometer wire.

✗ 4. decreasing the current through it.

Question Type : **MCQ**
Question ID : **292995268**
Option 1 ID : **2929951069**
Option 2 ID : **2929951072**
Option 3 ID : **2929951070**
Option 4 ID : **2929951071**
Status : **Answered**
Chosen Option : **1**

Section : Chemistry

Q.1 Among the following, an artificial sweetening agent which does not contain - CO - NH - bonding in molecule is

Ans
✓ 1. Sucrulose

✗ 2. Alitame

✗ 3. Aspartame

✗ 4. Saccharine

Question Type : **MCQ**
Question ID : **292995345**
Option 1 ID : **2929951379**
Option 2 ID : **2929951380**
Option 3 ID : **2929951378**
Option 4 ID : **2929951377**
Status : **Answered**
Chosen Option : **3**

Q.2 Identify the oxidising agent in the following redox reaction

$Cl_2 + 2Br^- \longrightarrow 2Cl^- + Br_2$

Ans
✗ 1. Cl^-

✗ 2. Br^-

✗ 3. Br_2

✓ 4. Cl_2

Question Type : **MCQ**
Question ID : **292995341**
Option 1 ID : **2929951363**
Option 2 ID : **2929951362**
Option 3 ID : **2929951364**
Option 4 ID : **2929951361**
Status : **Answered**
Chosen Option : **3**

Z@LLEGE.in

Q.3 Identify diamagnetic ion from following. (At.no.of Na=11, Cu=29, Fe=26, Cr=24)

Ans

✗ 1. Cu^{++}

✗ 2. Fe^{3+}

✓ 3. Na^{+}

✗ 4. Cr^{3+}

Question Type : **MCQ**
Question ID : **292995323**
Option 1 ID : **2929951290**
Option 2 ID : **2929951291**
Option 3 ID : **2929951289**
Option 4 ID : **2929951292**
Status : **Answered**
Chosen Option : **2**

Q.4 A polymer obtained from the monomers ethylene glycol and dimethyl terephthalate is

Ans

✗ 1. Nylon-6

✓ 2. Terylene

✗ 3. Bakelite

✗ 4. Nylon-6 ,10

Z@LLEGE.in

Question Type : **MCQ**
Question ID : **292995313**
Option 1 ID : **2929951249**
Option 2 ID : **2929951252**
Option 3 ID : **2929951251**
Option 4 ID : **2929951250**
Status : **Answered**
Chosen Option : **1**

Q.5 Which one of the following is a neutral oxide?

Ans

✗ 1. Al_2O_3

✓ 2. N_2O

✗ 3. Na_2O

✗ 4. SO_2

Question Type : **MCQ**
Question ID : **292995346**
Option 1 ID : **2929951383**
Option 2 ID : **2929951384**
Option 3 ID : **2929951381**
Option 4 ID : **2929951382**
Status : **Answered**
Chosen Option : **1**

Q.6 Which among following gases is readily adsorbed by activated charcoal ?

Ans

ZOLLEGE.in

1. H_2

2. SO_2

3. N_2

4. O_2

Question Type : **MCQ**
Question ID : **292995336**
Option 1 ID : **2929951343**
Option 2 ID : **2929951342**
Option 3 ID : **2929951341**
Option 4 ID : **2929951344**
Status : **Answered**
Chosen Option : **3**

Q.7 How are $[Co(NH_3)_5SO_4]NO_2$ and $[Co(NH_3)_5NO_2]SO_4$ related to each other?

Ans
1. Linkage isomers
2. Ionization isomers
3. Geometrical isomers
4. Coordination isomers

Question Type : **MCQ**
Question ID : **292995310**
Option 1 ID : **2929951237**
Option 2 ID : **2929951238**
Option 3 ID : **2929951240**
Option 4 ID : **2929951239**
Status : **Answered**
Chosen Option : **3**

Q.8 Which of the following rate expression is true for alkaline hydrolysis of methyl bromide ?

Ans
1. $Rate \propto [OH^-][CH_3Br]$
2. $Rate \propto [OH^-]$
3. $Rate \propto [CH_3Br]$
4. $Rate \propto [CH_3Br] + [OH^-]$

Question Type : **MCQ**
Question ID : **292995322**
Option 1 ID : **2929951286**
Option 2 ID : **2929951288**
Option 3 ID : **2929951287**
Option 4 ID : **2929951285**
Status : **Answered**
Chosen Option : **3**

Q.9 Which among following element has highest chemical reactivity?

Ans
1. Be

Z@LLEGE.in

2. Mg

3. Sr

4. Ba

Question Type : **MCQ**
Question ID : **292995335**
Option 1 ID : **2929951338**
Option 2 ID : **2929951340**
Option 3 ID : **2929951339**
Option 4 ID : **2929951337**
Status : **Answered**
Chosen Option : **2**

Q.1 Neo-pentyl alcohol is a -
0

Ans

1. Tertiary alcohol

2. Secondary alcohol

3. Primary alcohol

4. Dihydric alcohol

Question Type : **MCQ**
Question ID : **292995326**
Option 1 ID : **2929951302**
Option 2 ID : **2929951303**
Option 3 ID : **2929951301**
Option 4 ID : **2929951304**
Status : **Answered**
Chosen Option : **1**

Q.1 Which of following is a mineral of aluminium?
1

Ans

1. Dolomite

2. Siderite

3. China clay

4. Calamine

Question Type : **MCQ**
Question ID : **292995304**
Option 1 ID : **2929951215**
Option 2 ID : **2929951216**
Option 3 ID : **2929951213**
Option 4 ID : **2929951214**
Status : **Answered**
Chosen Option : **1**

Q.1 Two moles of an ideal gas are expanded from volume of 15.5 litre to 20 litre against a constant
2 external pressure of 1 atmosphere. The amount of work done is

Ans

1. -4.5 J

2. 2×10^{-2} J

3. -455.8 J

4. 225 J

Z@LLEGE.in

Question Type : **MCQ**
Question ID : **292995311**
Option 1 ID : **2929951242**
Option 2 ID : **2929951244**
Option 3 ID : **2929951241**
Option 4 ID : **2929951243**
Status : **Answered**
Chosen Option : **1**

Q.1 3 What is SI unit of Luminous intensity?

Ans
✗ 1. Ampere
✗ 2. ^{0}C
✗ 3. Kelvin
✓ 4. Candela

Question Type : **MCQ**
Question ID : **292995349**
Option 1 ID : **2929951393**
Option 2 ID : **2929951395**
Option 3 ID : **2929951394**
Option 4 ID : **2929951396**
Status : **Answered**
Chosen Option : **4**

Q.1 4 The magnitude of ΔT_f depends on

Ans
✗ 1. Nature of solute only
✗ 2. Nature of the solute and the concentration of solution
✓ 3. Nature of the solvent and the concentration of solution
✗ 4. Nature of solvent only

Question Type : **MCQ**
Question ID : **292995329**
Option 1 ID : **2929951314**
Option 2 ID : **2929951316**
Option 3 ID : **2929951315**
Option 4 ID : **2929951313**
Status : **Answered**
Chosen Option : **3**

Q.1 5 The decreasing order of thermal stability of hydrides of group 15 elements is

Ans
✗ 1. $AsH_3 > SbH_3 > NH_3 > PH_3$
✓ 2. $NH_3 > PH_3 > AsH_3 > SbH_3$
✗ 3. $SbH_3 > AsH_3 > PH_3 > NH_3$
✗ 4. $PH_3 > AsH_3 > SbH_3 > NH_3$

Question Type : **MCQ**

ZOLLEGE.in

Question ID : **292995332**
Option 1 ID : **2929951327**
Option 2 ID : **2929951325**
Option 3 ID : **2929951328**
Option 4 ID : **2929951326**
Status : **Answered**
Chosen Option : **3**

Q.16 For the elementary reaction $N_{2(g)}+3H_{2(g)}\rightarrow 2NH_{3(g)}$ identify the correct relation among the following relations

Ans

✗ 1. $$\frac{d[NH_{3(g)}]}{dt}=\frac{-1}{3}\frac{d[H_{2(g)}]}{dt}$$

✗ 2. $$\frac{-d[N_{2(g)}]}{dt}=\frac{-d[H_{2(g)}]}{dt}$$

✗ 3. $$\frac{+d[NH_{3(g)}]}{dt}=\frac{-3}{2}\frac{[dH_{2(g)}]}{dt}$$

✓ 4. $$\frac{-d[H_{2(g)}]}{dt}=\frac{+3}{2}\frac{d[NH_{3(g)}]}{dt}$$

Question Type : **MCQ**
Question ID : **292995317**
Option 1 ID : **2929951268**
Option 2 ID : **2929951265**
Option 3 ID : **2929951267**
Option 4 ID : **2929951266**
Status : **Answered**
Chosen Option : **2**

Q.17 When aniline forms 2,4,6- tribromo aniline on reaction with bromine water , it undergoes

Ans
✗ 1. nucleophilic addition
✗ 2. nucleophilic substitution
✓ 3. electrophilic substitution
✗ 4. electrophilic addition

Question Type : **MCQ**

ZOLLEGE.in

Question ID : **292995333**
Option 1 ID : **2929951330**
Option 2 ID : **2929951332**
Option 3 ID : **2929951331**
Option 4 ID : **2929951329**
Status : **Answered**
Chosen Option : **4**

Q.1 Which is most stable oxidation state of Vanadium (At.no.23)?
8

Ans
✗ 1. +2
✗ 2. +3
✗ 3. +4
✓ 4. +5

Question Type : **MCQ**
Question ID : **292995306**
Option 1 ID : **2929951221**
Option 2 ID : **2929951222**
Option 3 ID : **2929951223**
Option 4 ID : **2929951224**
Status : **Answered**
Chosen Option : **2**

Q.1 What is the charge on 0.05 mol of electrons?
9

Ans
✗ 1. 2412.5 C
✗ 2. 965 C
✓ 3. 4825 C
✗ 4. 9650 C

Question Type : **MCQ**
Question ID : **292995303**
Option 1 ID : **2929951211**
Option 2 ID : **2929951212**
Option 3 ID : **2929951210**
Option 4 ID : **2929951209**
Status : **Answered**
Chosen Option : **2**

Q.2 The standard electode potential of calomel electrode is increased by
0

Ans
✓ 1. decreasing the concentration of KCl solution
✗ 2. Increasing the quantity of Hg_2Cl_2
✗ 3. decreasing the quantity of calomel
✗ 4. Increasing the concentration of KCl solution

Question Type : **MCQ**
Question ID : **292995325**
Option 1 ID : **2929951299**
Option 2 ID : **2929951298**
Option 3 ID : **2929951300**

Z@LLEGE.in

Option 4 ID : **2929951297**
Status : **Answered**
Chosen Option : **2**

Q.2 Which of the following allotropic forms of sulphur exists in chair form?
1

Ans
✓ 1. Cyclo - sulphur
✗ 2. α - Sulphur
✗ 3. β - Sulphur
✗ 4. plastic sulphur

Question Type : **MCQ**
Question ID : **292995350**
Option 1 ID : **2929951399**
Option 2 ID : **2929951397**
Option 3 ID : **2929951398**
Option 4 ID : **2929951400**
Status : **Answered**
Chosen Option : **1**

Q.2 Identify the amphoteric oxide from the following
2

Ans
✗ 1. B_2O_3
✗ 2. CO
✓ 3. ZnO
✗ 4. CaO

Question Type : **MCQ**
Question ID : **292995348**
Option 1 ID : **2929951390**
Option 2 ID : **2929951389**
Option 3 ID : **2929951391**
Option 4 ID : **2929951392**
Status : **Answered**
Chosen Option : **1**

Q.2 What type of hybridisation is present in PCl_5 molecule?
3

Ans
✓ 1. sp^3d^2
✗ 2. sp^3d^3
✗ 3. sp^3d
✗ 4. dsp^2

Question Type : **MCQ**
Question ID : **292995331**
Option 1 ID : **2929951323**
Option 2 ID : **2929951324**
Option 3 ID : **2929951322**
Option 4 ID : **2929951321**

Z@LLEGE.in

Status : **Answered**
Chosen Option : **1**

Q.2 4 Any galvanic cell working under standard condition, if the equation of the cell reaction is multiplied by 3 then

Ans

✗ 1. E^0 increases three times

✓ 2. E^0 is unchanged

✗ 3. E^0 decreases three times

✗ 4. ΔG^0 is unchanged

Question Type : **MCQ**
Question ID : **292995334**
Option 1 ID : **2929951334**
Option 2 ID : **2929951336**
Option 3 ID : **2929951335**
Option 4 ID : **2929951333**
Status : **Answered**
Chosen Option : **1**

Q.2 5 Which among the following elements exhibits only +3 oxidation state?

Ans

✗ 1. $Nd_{(Z=60)}$

✓ 2. $La_{(Z=57)}$

✗ 3. $Dy_{(Z=66)}$

✗ 4. $Yb_{(Z=70)}$

Question Type : **MCQ**
Question ID : **292995302**
Option 1 ID : **2929951208**
Option 2 ID : **2929951205**
Option 3 ID : **2929951206**
Option 4 ID : **2929951207**
Status : **Answered**
Chosen Option : **2**

Q.2 6 The sodium fusion extract of aniline is boiled with ferrous sulphate and then acidified with concentrated sulphuric acid.
The colour of complex formed is

Ans

✗ 1. Violet

✗ 2. Yellow

✗ 3. Black

✓ 4. Prussian blue

Question Type : **MCQ**
Question ID : **292995343**
Option 1 ID : **2929951372**
Option 2 ID : **2929951370**

Z@LLEGE.in

Option 3 ID : **2929951371**
Option 4 ID : **2929951369**
Status : **Answered**
Chosen Option : **2**

Q.27 Nitronic acid with 50% sulphuric acid at room temperature forms an aldehyde. This reaction is known as,

Ans
✗ 1. Gabriel phthalamide synthesis
✓ 2. Nef carbonyl synthesis
✗ 3. Etard reaction
✗ 4. Hoffmann degradation

Question Type : **MCQ**
Question ID : **292995337**
Option 1 ID : **2929951346**
Option 2 ID : **2929951345**
Option 3 ID : **2929951348**
Option 4 ID : **2929951347**
Status : **Answered**
Chosen Option : **4**

Q.28 Which among following raections of water generates oxygen gas ?

Ans
✗ 1. Reaction with calcium oxide
✗ 2. Reaction with sodium
✗ 3. Reaction with ammonia
✓ 4. Photosynthesis reaction

Question Type : **MCQ**
Question ID : **292995328**
Option 1 ID : **2929951311**
Option 2 ID : **2929951310**
Option 3 ID : **2929951312**
Option 4 ID : **2929951309**
Status : **Answered**
Chosen Option : **1**

Q.29 PCl_5 exists, but NCl_5 does not, due to-

Ans
✗ 1. NCl_5 is unsatble
✗ 2. larger size of nitrogen
✗ 3. inertness of nitrogen
✓ 4. non availability of vacant d- atomic orbitals

Question Type : **MCQ**
Question ID : **292995308**
Option 1 ID : **2929951230**
Option 2 ID : **2929951231**
Option 3 ID : **2929951229**
Option 4 ID : **2929951232**
Status : **Answered**

ZOLLEGE.in

Chosen Option : 1

Q.30 The temperature and pressure of 4 dm^3 of an ideal gas are doubled. The volume of the gas now is

Ans
1. $2\ dm^3$
2. $4\ dm^3$
3. $8\ dm^3$
4. $3\ dm^3$

Question Type : MCQ
Question ID : 292995340
Option 1 ID : 2929951360
Option 2 ID : 2929951358
Option 3 ID : 2929951357
Option 4 ID : 2929951359
Status : Answered
Chosen Option : 2

Q.31 Styrene and 1,3-butadiene on polymerisation forms

Ans
1. Buna-N
2. Neoprene
3. Butyl rubber
4. Buna-S

Question Type : MCQ
Question ID : 292995342
Option 1 ID : 2929951368
Option 2 ID : 2929951365
Option 3 ID : 2929951366
Option 4 ID : 2929951367
Status : Answered
Chosen Option : 2

Q.32 What happens during the action of catalyst?

Ans
1. Temperature increases
2. Temperature decreases
3. E_a increases
4. E_a decreases

Question Type : MCQ
Question ID : 292995305
Option 1 ID : 2929951219
Option 2 ID : 2929951220
Option 3 ID : 2929951217
Option 4 ID : 2929951218
Status : Answered
Chosen Option : 3

ZOLLEGE.in

Q.33 The standard enthalpy of formation of $C_2H_6(g)$ is -84.7 kJ mol^{-1}.
what is the enthalpy change for the formation of 0.06 kg ethane ?
(Given,atomic mass C=12, H=1)

Ans
✗ 1. -42.35 kJ
✓ 2. -169.4 kJ
✗ 3. -50.82 kJ
✗ 4. -236.7 kJ

Question Type : MCQ
Question ID : 292995347
Option 1 ID : 2929951388
Option 2 ID : 2929951386
Option 3 ID : 2929951387
Option 4 ID : 2929951385
Status : Answered
Chosen Option : 1

Q.34 Which among the following complex ion is NOT diamagnetic?

Ans
✗ 1. $[Ni(CN)_4]^{2-}$
✗ 2. $Ni(CO)_4$
✗ 3. $[CO(NH_3)_6]^{3+}$
✓ 4. $[NiCl_4]^{2-}$

Question Type : MCQ
Question ID : 292995316
Option 1 ID : 2929951262
Option 2 ID : 2929951263
Option 3 ID : 2929951264
Option 4 ID : 2929951261
Status : Answered
Chosen Option : 3

Q.35 Identify optically inactive compound among the following

Ans
✗ 1. 2 - chloropropanal
✗ 2. 2 - chloropentane
✓ 3. 2 - chloro,2-methylbutane
✗ 4. 2 - chlorobutane

Question Type : MCQ
Question ID : 292995338
Option 1 ID : 2929951350
Option 2 ID : 2929951349
Option 3 ID : 2929951351
Option 4 ID : 2929951352
Status : Answered

Z@LLEGE.in

Chosen Option : **2**

Q.3 6 Which of the following pairs of solutions will be isotonic at the same temperature?

Ans

✗ 1. 1M NaCl and 1M $MgCl_2$

✗ 2. 1.5M KCl and 2.5M Urea

✓ 3. 1.5M $AlCl_3$ and 2M Na_2SO_4

✗ 4. 1M NaCl and 2M $MgCl_2$

Question Type : **MCQ**
Question ID : **292995318**
Option 1 ID : **2929951269**
Option 2 ID : **2929951272**
Option 3 ID : **2929951271**
Option 4 ID : **2929951270**
Status : **Answered**
Chosen Option : **2**

Q.3 7 What type of glycosidic linkage is present in maltose ?

Ans

✗ 1. 1 → 6 β

✗ 2. 1 → 4 β

✗ 3. 1 → 6 α

✓ 4. 1 → 4 α

Question Type : **MCQ**
Question ID : **292995339**
Option 1 ID : **2929951356**
Option 2 ID : **2929951354**
Option 3 ID : **2929951355**
Option 4 ID : **2929951353**
Status : **Answered**
Chosen Option : **3**

Q.3 8 Calculate the volume of bcc type unit cell having edge length 288 pm and 7.2 g cm^{-3} density? (mass of unit cell= 52g)

Ans

✓ 1. $7.22\ cm^3$

✗ 2. $1.38\times10^{-1}\ cm^3$

✗ 3. $2.38\times10^{-2}\ cm^3$

✗ 4. $3.023\times10^{-2}\ cm^3$

Question Type : **MCQ**
Question ID : **292995321**
Option 1 ID : **2929951281**
Option 2 ID : **2929951284**
Option 3 ID : **2929951282**
Option 4 ID : **2929951283**
Status : **Answered**

ZOLLEGE.in

Chosen Option : **2**

Q.39 Acetic acid on treatment with NaOH gives Y and with $SOCl_2$ gives Z. Y and Z when heated form acetic anhydride. The compounds Y and Z respectively are

Ans
✗ 1. CH_3OH and CH_3COCl

✗ 2. CH_3COCl and CH_3COONa

✓ 3. CH_3COONa and CH_3COCl

✗ 4. CH_3COONa and CH_3COOH

Question Type : **MCQ**
Question ID : **292995330**
Option 1 ID : **2929951317**
Option 2 ID : **2929951320**
Option 3 ID : **2929951318**
Option 4 ID : **2929951319**
Status : **Answered**
Chosen Option : **4**

Q.40 A solution contains 1.2 moles of solute and 13.8 moles of solvent. Hence the mole fraction of the solute is

Ans
✗ 1. 0.085

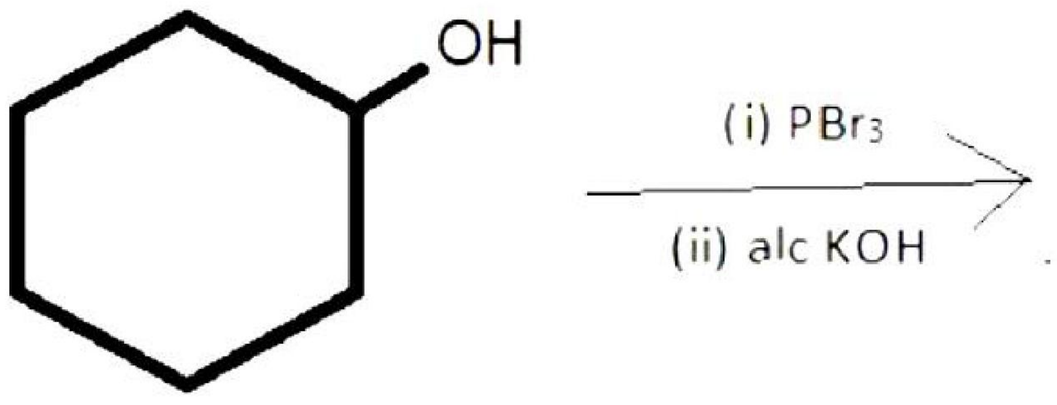
✗ 2. 0.09

✓ 3. 0.08

✗ 4. 0.075

Question Type : **MCQ**
Question ID : **292995320**
Option 1 ID : **2929951280**
Option 2 ID : **2929951278**
Option 3 ID : **2929951277**
Option 4 ID : **2929951279**
Status : **Answered**
Chosen Option : **3**

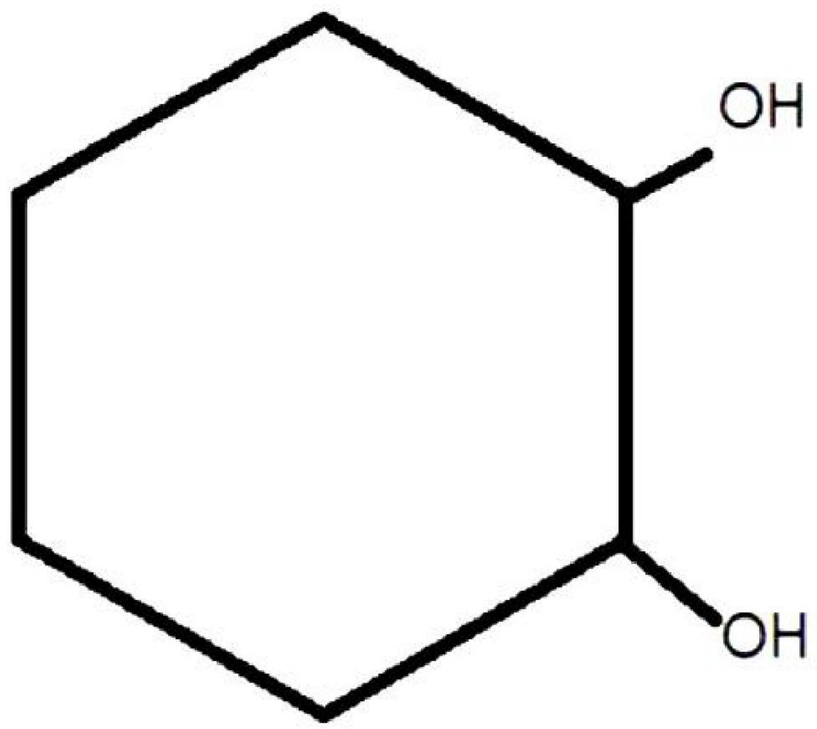
Q.41 Predict the product of the following reaction



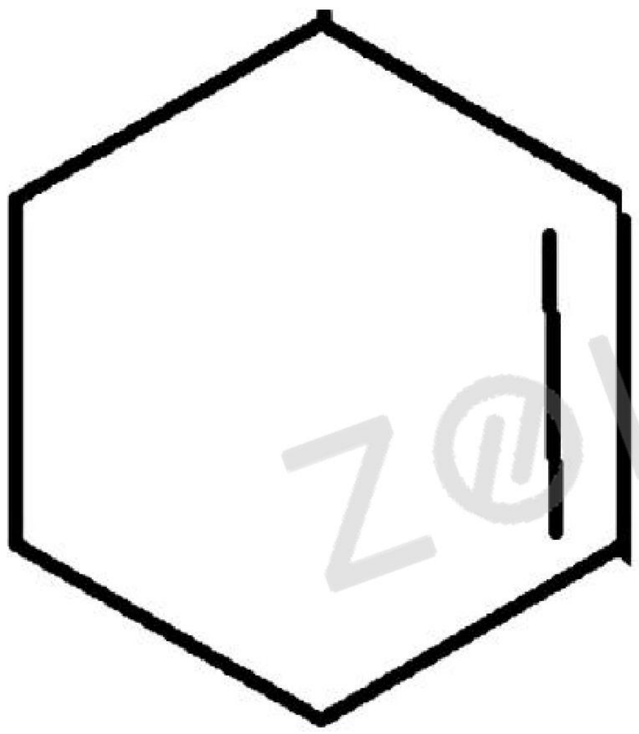
Ans

ZOLLEGE.in

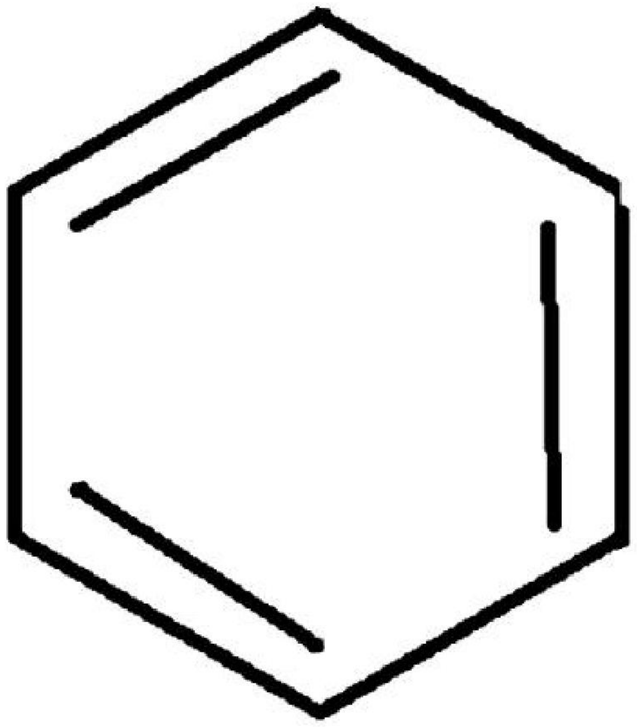
1.



2.

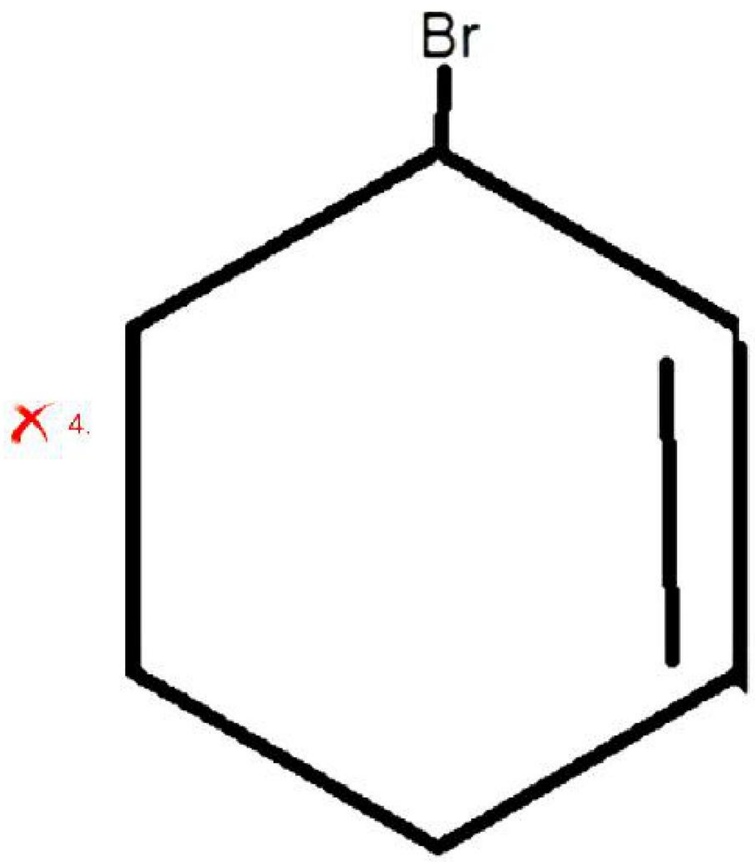


3.



Z@LLEGE.in

ZOLLEGE.in



✗ 4.

Question Type : MCQ
Question ID : 292995319
Option 1 ID : 2929951273
Option 2 ID : 2929951274
Option 3 ID : 2929951276
Option 4 ID : 2929951275
Status : Answered
Chosen Option : 4

Q.4 Oraganic compounds 'A' and 'B' react with sodium metal and liberate hydrogen gas. 'A' and 'B' react together to give ethyl methanoate, compound A and B respectively are
2

Ans
✓ 1. $HCOOH$ and C_2H_5OH

✗ 2. CH_3COOH and C_2H_5OH

✗ 3. CH_3COOH and $HCOOH$

✗ 4. CH_3OH and CH_3COOH

Question Type : MCQ
Question ID : 292995312
Option 1 ID : 2929951246
Option 2 ID : 2929951245
Option 3 ID : 2929951247
Option 4 ID : 2929951248
Status : Answered
Chosen Option : 2

Q.4 Haloform test is NOT exhibited by
3

Ans
✗ 1. Ethanal

✓ 2. Propanal

✗ 3. Propanone

ZOLLEGE.in

✗ 4. Acetophenone

Question Type : MCQ
Question ID : 292995327
Option 1 ID : 2929951305
Option 2 ID : 2929951307
Option 3 ID : 2929951306
Option 4 ID : 2929951308
Status : Answered
Chosen Option : 4

Q.44 One atom of an element 'x' weighs 6.0×10^{-23}g. Mass of 1 mole of atoms is

Ans
✗ 1. $40.0\ mol^{-1}$
✗ 2. $32.31\ mol^{-1}$
✗ 3. $4.5\ mol^{-1}$
✓ 4. $36.13\ mol^{-1}$

Question Type : MCQ
Question ID : 292995309
Option 1 ID : 2929951235
Option 2 ID : 2929951234
Option 3 ID : 2929951236
Option 4 ID : 2929951233
Status : Answered
Chosen Option : 2

Q.45 O- acetyl salicylic acid is used as

Ans
✗ 1. Antimicrobial
✗ 2. tranquilizer
✗ 3. antioxidant
✓ 4. antirhuematic drug

Question Type : MCQ
Question ID : 292995314
Option 1 ID : 2929951256
Option 2 ID : 2929951254
Option 3 ID : 2929951255
Option 4 ID : 2929951253
Status : Answered
Chosen Option : 4

Q.46 Enthalpy of fusion of water is 6.0 kJ mol^{-1} at 0^0C.What is enthalpy change when 4.5×10^{-3} Kg of water undergoes fusion?

Ans
✗ 1. 1.5×10^{-2} kJ
✓ 2. 1.5 kJ
✗ 3. 150 kJ
✗ 4. 1.5×10^{-3} kJ

Question Type : MCQ

ZOLLEGE.in

Question ID : **292995315**
Option 1 ID : **2929951258**
Option 2 ID : **2929951260**
Option 3 ID : **2929951259**
Option 4 ID : **2929951257**
Status : **Answered**
Chosen Option : **2**

Q.4 7 Which of the following methods of refining of crude metals uses green logs of wood ?

Ans
✗ 1. Zone refining
✓ 2. Polling
✗ 3. Liquation processs
✗ 4. Vapour phase refining

Question Type : **MCQ**
Question ID : **292995301**
Option 1 ID : **2929951204**
Option 2 ID : **2929951203**
Option 3 ID : **2929951201**
Option 4 ID : **2929951202**
Status : **Answered**
Chosen Option : **4**

Q.4 8 Which of the following is NOT basic ∝-amino acid?

Ans
✗ 1. Histidine
✗ 2. Lysine
✗ 3. Arginine
✓ 4. Alanine

Question Type : **MCQ**
Question ID : **292995344**
Option 1 ID : **2929951376**
Option 2 ID : **2929951375**
Option 3 ID : **2929951373**
Option 4 ID : **2929951374**
Status : **Answered**
Chosen Option : **1**

Q.4 9 The number of sigma and Pi bonds respectively present in a molecule of O-chloro toluene is,

Ans
✓ 1. 15 and 3
✗ 2. 8 and 3
✗ 3. 11 and 3
✗ 4. 17 and 3

Question Type : **MCQ**
Question ID : **292995307**
Option 1 ID : **2929951227**
Option 2 ID : **2929951225**
Option 3 ID : **2929951226**
Option 4 ID : **2929951228**
Status : **Answered**

ZOLLEGE.in

Chosen Option : **2**

Q.50 How many moles of ethyl bromide are required to produce 'n' moles of butane by Wurtz synthesis ?

Ans
✗ 1. 3n
✗ 2. n
✓ 3. 2n
✗ 4. $\frac{n}{2}$

Question Type : **MCQ**
Question ID : **292995324**
Option 1 ID : **2929951296**
Option 2 ID : **2929951293**
Option 3 ID : **2929951294**
Option 4 ID : **2929951295**
Status : **Answered**
Chosen Option : **3**

Section: Mathematics

Q.1 If $\int \frac{1}{x\,(x^7+1)}\,dx$ = A log $|x|$ + B log $|x^7+1|$ + C then A - B = . . .

Ans
✗ 1. $\frac{-2}{7}$
✓ 2. $\frac{8}{7}$
✗ 3. 0
✗ 4. $\frac{2}{7}$

Question Type : **MCQ**
Question ID : **292995354**
Option 1 ID : **2929951415**
Option 2 ID : **2929951413**
Option 3 ID : **2929951414**
Option 4 ID : **2929951416**
Status : **Answered**
Chosen Option : **1**

Q.2 The line joining (1,1,1) and (2,2,2) intersects the plane $x + y + z = 9$ at the point ....

Ans
✓ 1. (3,3,3)

ZOLLEGE.in

✗ 2. (3,0,6)

✗ 3. (1,4,4)

✗ 4. (0,4,5)

Question Type : **MCQ**
Question ID : **292995382**
Option 1 ID : **2929951526**
Option 2 ID : **2929951527**
Option 3 ID : **2929951525**
Option 4 ID : **2929951528**
Status : **Answered**
Chosen Option : **2**

Q.3

$$\int_{-2}^{2} |x+1|\, dx = \ldots$$

Ans

✓ 1. 5

✗ 2. 7

✗ 3. 1

✗ 4. 3

Question Type : **MCQ**
Question ID : **292995391**
Option 1 ID : **2929951563**
Option 2 ID : **2929951564**
Option 3 ID : **2929951561**
Option 4 ID : **2929951562**
Status : **Answered**
Chosen Option : **3**

Q.4

$$\tan\left[\cos^{-1}\left(\frac{1}{5\sqrt{2}}\right) - \sin^{-1}\left(\frac{4}{\sqrt{17}}\right)\right] = \ldots$$

Ans

Ans

✗ 1. $\frac{\sqrt{29}}{3}$

✗ 2. $\frac{\sqrt{3}}{29}$

✓ 3. $\frac{3}{29}$

Z@LLEGE.in

ZOLLEGE.in

✗ 4. $\frac{29}{3}$

Question Type : MCQ
Question ID : 292995385
Option 1 ID : 2929951539
Option 2 ID : 2929951540
Option 3 ID : 2929951538
Option 4 ID : 2929951537
Status : Answered
Chosen Option : 4

Q.5 The curve passes through the point $(-3, 4)$ and slope of tangent to the curve at any point is $-\frac{x}{y}$. Then the equation of the curve is...

Ans
✗ 1. $xy = -12$

✗ 2. $x^2 - y^2 = -7$

✓ 3. $x^2 + y^2 = 25$

✗ 4. $4x + 3y = 0$

Question Type : MCQ
Question ID : 292995378
Option 1 ID : 2929951509
Option 2 ID : 2929951510
Option 3 ID : 2929951511
Option 4 ID : 2929951512
Status : Answered
Chosen Option : 4

Q.6 If A, B are two events such that P(A') = 0.4, P (B) = 0.5 and $P(A \cap B') = 0.4$ then $P(A \cup B') = \ldots$

Ans
✓ 1. 0.7

✗ 2. 0.4

✗ 3. 0.9

✗ 4. 0.6

Question Type : MCQ
Question ID : 292995398
Option 1 ID : 2929951589
Option 2 ID : 2929951590
Option 3 ID : 2929951592
Option 4 ID : 2929951591
Status : Answered
Chosen Option : 2

Q.7

If $3x^2 - 4xy + 5y^2 = 0$ then $\frac{d^2y}{dx^2} = \ldots.$

Z@LLEGE.in

Ans

✗ 1. $\frac{3x-2y}{2x-3y}$

✓ 2. 0

✗ 3. $\frac{y}{x}$

✗ 4. $\frac{-x}{y}$

Question Type : **MCQ**
Question ID : **292995368**
Option 1 ID : **2929951472**
Option 2 ID : **2929951470**
Option 3 ID : **2929951469**
Option 4 ID : **2929951471**
Status : **Answered**
Chosen Option : **2**

Q.8 The domain of the function $f(x)=\frac{1}{\sqrt{16-x^2}}$ is ...

Ans

✗ 1. (0,4)

✗ 2. [-4,4]

✓ 3. (-4,4)

✗ 4. [0,4]

Question Type : **MCQ**
Question ID : **292995399**
Option 1 ID : **2929951596**
Option 2 ID : **2929951593**
Option 3 ID : **2929951595**
Option 4 ID : **2929951594**
Status : **Answered**
Chosen Option : **2**

Q.9 The area of region between parabolas $y^2=8x$ and $x^2=2\sqrt{2}\,y$ is.....square units

Ans

✗ 1. $\frac{32\sqrt{2}}{3}$

✗ 2. $\frac{64\sqrt{3}}{2}$

✗ 3. $\frac{8\sqrt{2}}{3}$

✓ 4. $\frac{16\sqrt{2}}{3}$

Z@LLEGE.in

Question Type : **MCQ**
Question ID : **292995353**
Option 1 ID : **2929951411**
Option 2 ID : **2929951412**
Option 3 ID : **2929951409**
Option 4 ID : **2929951410**
Status : **Answered**
Chosen Option : **4**

Q.10 In Δ ABC; with usual notations, $a\cos^2\frac{C}{2}+c\cos^2\frac{A}{2}=k$, and a,b,c are in A.P. then k = …

Ans

✔ 1. $\frac{3b}{2}$

✗ 2. 2b

✗ 3. $\frac{b}{2}$

✗ 4. b

Z@LLEGE.in

Question Type : **MCQ**
Question ID : **292995396**
Option 1 ID : **2929951583**
Option 2 ID : **2929951584**
Option 3 ID : **2929951582**
Option 4 ID : **2929951581**
Status : **Answered**
Chosen Option : **3**

Q.11 If $f(x)=(sec^2x)^{cot^2x}$ for $x\neq 0$ is continuous at $x=0$, then $f(0)=\ldots$

Ans

✗ 1. -1

✗ 2. $\frac{1}{e}$

✔ 3. e

✗ 4. 1

Question Type : **MCQ**
Question ID : **292995369**
Option 1 ID : **2929951476**
Option 2 ID : **2929951475**
Option 3 ID : **2929951474**
Option 4 ID : **2929951473**
Status : **Answered**
Chosen Option : **2**

Q.12 If $A=\begin{bmatrix}3 & 2\\ 4 & 3\end{bmatrix}$ then adj $(A^{-1})=\ldots$

Ans

ZOLLEGE.in

✗ 1. $adj\ A$

✓ 2. A

✗ 3. A^{-1}

✗ 4. $A + I$

Question Type : **MCQ**
Question ID : **292995373**
Option 1 ID : **2929951492**
Option 2 ID : **2929951490**
Option 3 ID : **2929951491**
Option 4 ID : **2929951489**
Status : **Answered**
Chosen Option : **3**

Q.13 The statement pattern $(q \rightarrow p) \leftrightarrow (\sim q \vee p)$ is...

Ans

✓ 1. a tautology

✗ 2. equivalent to $(p \vee q)$

✗ 3. a contradiction

✗ 4. equivalent to $(p \wedge q)$

Question Type : **MCQ**
Question ID : **292995360**
Option 1 ID : **2929951437**
Option 2 ID : **2929951439**
Option 3 ID : **2929951438**
Option 4 ID : **2929951440**
Status : **Answered**
Chosen Option : **2**

Q.14 $\int e^x \left[e^{\log(x+3)} + 2\right] dx =$

Ans

✗ 1. $(x+3)e^x + c$

✗ 2. $(x+2)e^x + c$

✓ 3. $(x+4)e^x + c$

✗ 4. $xe^x + c$

Question Type : **MCQ**
Question ID : **292995392**
Option 1 ID : **2929951567**

Z@LLEGE.in

Option 2 ID : **2929951566**
Option 3 ID : **2929951568**
Option 4 ID : **2929951565**
Status : **Answered**
Chosen Option : **3**

Q.15 If $2x - y - 2 = 0$ touches the curve $y^2 = ax^2 + b$ at (2,2) then

Ans
✗ 1. a = 2 , b = 4
✗ 2. a = -2, b= 4
✗ 3. a = -2 , b = -4
✓ 4. a = 2, b = -4

Question Type : **MCQ**
Question ID : **292995351**
Option 1 ID : **2929951401**
Option 2 ID : **2929951402**
Option 3 ID : **2929951404**
Option 4 ID : **2929951403**
Status : **Answered**
Chosen Option : **1**

Q.16 The maximum value of $z = 10x + 25y$ subject to the constraints $0 \leq x \leq 3, 0 \leq y \leq 3, x + y \geq 5$ is ...

Ans
✗ 1. 95
✗ 2. 80
✗ 3. 130
✓ 4. 105

Question Type : **MCQ**
Question ID : **292995393**
Option 1 ID : **2929951572**
Option 2 ID : **2929951570**
Option 3 ID : **2929951569**
Option 4 ID : **2929951571**
Status : **Answered**
Chosen Option : **3**

Q.17 If $f(x) = \begin{cases} x - 3 & , for\ x > 3 \\ 5 & , for\ x \leq 3 \end{cases}$ then $fof(1) = \ldots$

Ans
✗ 1. 4
✓ 2. 2
✗ 3. 3
✗ 4. 5

Question Type : **MCQ**
Question ID : **292995375**
Option 1 ID : **2929951498**
Option 2 ID : **2929951500**
Option 3 ID : **2929951499**
Option 4 ID : **2929951497**

ZOLLEGE.in

Status : **Answered**
Chosen Option : **1**

Q.18 If lines $x - y = k, 4x - 3y = 20$ and $6x + 5y + 8 = 0$ are concurrent then k = ...

Ans
✗ 1. 4
✗ 2. 8
✗ 3. 2
✓ 4. 6

Question Type : **MCQ**
Question ID : **292995376**
Option 1 ID : **2929951502**
Option 2 ID : **2929951504**
Option 3 ID : **2929951501**
Option 4 ID : **2929951503**
Status : **Answered**
Chosen Option : **2**

Q.19 If the sum of radius and height of right circular cylinder is 6 units then its maximum volume is .... Cu. Units.

Ans
✗ 1. 64π
✓ 2. 32π
✗ 3. 16π
✗ 4. 4π

Question Type : **MCQ**
Question ID : **292995389**
Option 1 ID : **2929951555**
Option 2 ID : **2929951554**
Option 3 ID : **2929951553**
Option 4 ID : **2929951556**
Status : **Answered**
Chosen Option : **1**

Q.20 If $\frac{1}{x}$ is an integrating factor of the differential equation $\frac{dy}{dx} + Py = Q$, then P =...

Ans
✗ 1. $-x$
✗ 2. $\frac{1}{x}$
✓ 3. $-\frac{1}{x}$
✗ 4. x

Z@LLEGE.in

Question Type : **MCQ**
Question ID : **292995366**
Option 1 ID : **2929951464**
Option 2 ID : **2929951461**
Option 3 ID : **2929951462**
Option 4 ID : **2929951463**
Status : **Answered**
Chosen Option : **3**

Q.21 If line L_1 passes through the points P (2, 3, 1) and Q (-1, 2, x) and line L_2 passes through the points $R(y, -1, 1)$ and S (0, 1, -1) and L_1 is parallel to L_2 then value of $2x + y$ is ....

Ans

✔ 1. -2

✗ 2. 14

✗ 3. -4

✗ 4. -10

Question Type : **MCQ**
Question ID : **292995357**
Option 1 ID : **2929951427**
Option 2 ID : **2929951428**
Option 3 ID : **2929951426**
Option 4 ID : **2929951425**
Status : **Answered**
Chosen Option : **3**

Q.22 The value of $\sqrt{\frac{1-\cos(300)^0}{2}}$ is ...

Ans

✗ 1. $-\frac{\sqrt{3}}{2}$

✗ 2. $\frac{\sqrt{3}}{2}$

✗ 3. $-\frac{1}{2}$

✔ 4. $\frac{1}{2}$

Question Type : **MCQ**
Question ID : **292995400**
Option 1 ID : **2929951600**
Option 2 ID : **2929951598**
Option 3 ID : **2929951599**
Option 4 ID : **2929951597**
Status : **Answered**
Chosen Option : **1**

ZOLLEGE.in

Q.23 If f(x) = $\tan^{-1}(a+bx)$ and $f'(0) = 1$ then b = ...

Ans

✔ 1. a^2+1

✗ 2. a^2-1

✗ 3. $a+1$

✗ 4. $a-1$

Question Type : MCQ
Question ID : 292995380
Option 1 ID : 2929951517
Option 2 ID : 2929951518
Option 3 ID : 2929951519
Option 4 ID : 2929951520
Status : Answered
Chosen Option : 2

Q.24 If $\int_0^a 3x^2dx = 27$ then $a = \cdots$

Ans

✗ 1. 2

✗ 2. -3

✔ 3. 3

✗ 4. -2

Question Type : MCQ
Question ID : 292995379
Option 1 ID : 2929951514
Option 2 ID : 2929951515
Option 3 ID : 2929951513
Option 4 ID : 2929951516
Status : Answered
Chosen Option : 2

Q.25 If point A (4, 6, 10) lies on the line $\bar{r} = (\hat{i}+\hat{j}+\hat{k}) + \lambda(a\hat{i}+b\hat{j}+c\hat{k})$ then $a:b:c = \ldots$

Ans

✗ 1. 1 : 1 : 1

✗ 2. 1 : 2 : 3

✗ 3. 2 : 3 : 5

✔ 4. 3 : 5 : 9

Question Type : MCQ
Question ID : 292995394
Option 1 ID : 2929951574
Option 2 ID : 2929951576
Option 3 ID : 2929951575
Option 4 ID : 2929951573
Status : Answered
Chosen Option : 2

ZOLLEGE.in

Q.26 If $x = \frac{e^t + e^{-t}}{2}$, $y = \frac{e^t - e^{-t}}{2}$ then $\frac{dx}{dy} = \ldots$

Ans
1. $x^t y^t$
2. $\frac{y}{x}$
3. $\frac{x}{y}$
4. xy

Question Type : **MCQ**
Question ID : **292995355**
Option 1 ID : **2929951419**
Option 2 ID : **2929951418**
Option 3 ID : **2929951417**
Option 4 ID : **2929951420**
Status : **Answered**
Chosen Option : **2**

Q.27 If the function $f(x) = \frac{\log(1+3x)}{\log(1-3x)}$, for $x \neq 0$

$= k$, for $x = 0$

is continuous at $x = 0$ then $k = \ldots$

Ans
1. -3
2. 3
3. 1
4. -1

Question Type : **MCQ**
Question ID : **292995381**
Option 1 ID : **2929951524**
Option 2 ID : **2929951523**
Option 3 ID : **2929951522**
Option 4 ID : **2929951521**
Status : **Answered**
Chosen Option : **2**

Q.28

ZOLLEGE.in

The probability density function of r. v. x is given by,

$f(x) = \frac{1}{2a}, 0 < x < 2a$

$= 0$,otherwise

Then $P\left(X < \frac{a}{2}\right)$ =....

Ans

✗ 1. $P\left(X > \frac{a}{2}\right)$

✓ 2. $P\left(X > \frac{3a}{2}\right)$

✗ 3. $P\left(X > \frac{2a}{3}\right)$

✗ 4. $P(X > a)$

Z@LLEGE.in

Question Type : MCQ
Question ID : 292995390
Option 1 ID : 2929951559
Option 2 ID : 2929951557
Option 3 ID : 2929951560
Option 4 ID : 2929951558
Status : Answered
Chosen Option : 1

Q.29 In ΔABC, with usual notations if $sin^2 A + cos^2 B = \cos^2 C$, then ΔABC is...

Ans

✗ 1. right angled at A

✗ 2. right angled at C

✓ 3. right angled at B

✗ 4. equilateral triangle

Question Type : MCQ
Question ID : 292995359
Option 1 ID : 2929951433
Option 2 ID : 2929951435
Option 3 ID : 2929951434
Option 4 ID : 2929951436
Status : Answered
Chosen Option : 1

Q.30 The equation of the line containing the latus rectum of the parabola $y^2 = 12x$ is ....

Ans

ZOLLEGE.in

1. $x + 3 = 0$

2. $y = 3$

3. $x = 3$

4. $y + 3 = 0$

Question Type : MCQ
Question ID : 292995362
Option 1 ID : 2929951447
Option 2 ID : 2929951445
Option 3 ID : 2929951446
Option 4 ID : 2929951448
Status : Answered
Chosen Option : 1

Q.31 If the tangent to the circle $x^2 + y^2 = 25$ at point A (3,4) is parallel to one of the lines represented by $x^2 + 2hxy + 4y^2 = 0$, then the slope of the other line is...

Ans
1. -1/3
2. 2
3. 3
4. -2

Question Type : MCQ
Question ID : 292995358
Option 1 ID : 2929951430
Option 2 ID : 2929951431
Option 3 ID : 2929951429
Option 4 ID : 2929951432
Status : Answered
Chosen Option : 1

Q.32 If $P(\theta)$ is a point on the hyperbola $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ whose foci are S and S' then SP.S'P =....

Ans
1. $a^2\tan^2\theta + b^2\sec^2\theta$
2. $a^2\sec^2\theta + b^2\tan^2\theta$
3. $a^2 tan^2\theta - b^2\sec^2\theta$
4. $a^2\sec^2\theta - b^2\tan^2\theta$

Question Type : MCQ
Question ID : 292995388
Option 1 ID : 2929951552
Option 2 ID : 2929951549
Option 3 ID : 2929951551
Option 4 ID : 2929951550
Status : Answered
Chosen Option : 3

Z@LLEGE.in

Q.33 If $A = \begin{bmatrix} 0 & 1 & 2 \\ 1 & 2 & 3 \\ 3 & a & 1 \end{bmatrix}$ and $A^{-1} = \frac{1}{2}\begin{bmatrix} 1 & -1 & 1 \\ -8 & 6 & 2c \\ 5 & -3 & 1 \end{bmatrix}$ then $a + c$ =...

Ans
- ✗ 1. -2
- ✗ 2. 2
- ✓ 3. 0
- ✗ 4. 1

Question Type : MCQ
Question ID : 292995397
Option 1 ID : 2929951587
Option 2 ID : 2929951585
Option 3 ID : 2929951586
Option 4 ID : 2929951588
Status : Answered
Chosen Option : 3

Q.34 Volume of the tetrahedren whose vertices are A (2, -1, 0) , B (-3, 0, 4), C (0, -1, 4) and D (0, -5, 10) is ...

Ans
- ✗ 1. 36 cubic unit
- ✗ 2. 42 cubic unit
- ✗ 3. 63 cubic unit
- ✓ 4. 6 cubic unit

Question Type : MCQ
Question ID : 292995395
Option 1 ID : 2929951577
Option 2 ID : 2929951580
Option 3 ID : 2929951578
Option 4 ID : 2929951579
Status : Answered
Chosen Option : 3

Q.35 Two dice are thrown 5 times. The probability that both of the dice show equal scores three times is....

Ans
- ✗ 1. $\frac{(5)^3}{(3)^5 \times (2)^5}$
- ✗ 2. $\frac{(5)^3}{(3)^5 \times (2)^3}$

Z@LLEGE.in

3. $\frac{(5)^3}{(3)^5 \times (2)^4}$

4. $\frac{(5)^2}{(3)^5 \times (2)^4}$

Question Type : MCQ
Question ID : 292995377
Option 1 ID : 2929951506
Option 2 ID : 2929951508
Option 3 ID : 2929951505
Option 4 ID : 2929951507
Status : Answered
Chosen Option : 2

Q.36 The 7th term of the sequence $\sqrt{3}, \frac{1}{\sqrt{3}}, \frac{1}{3\sqrt{3}}, \frac{1}{9\sqrt{3}}$ is…

Ans

1. $\frac{\sqrt{3}}{81}$

2. $\frac{1}{243}$

3. $\frac{1}{243\sqrt{3}}$

4. $\frac{1}{81\sqrt{3}}$

Question Type : MCQ
Question ID : 292995361
Option 1 ID : 2929951441
Option 2 ID : 2929951444
Option 3 ID : 2929951443
Option 4 ID : 2929951442
Status : Answered
Chosen Option : 3

Q.37

ZOLLEGE.in

In ΔABC, P is point on BC such that $3\overline{BP} = 2\overline{PC}$ and Q is a point on AC such that $4\overline{CQ} = \overline{QA}$. If AP and BQ intersect at the point R, then R divides BQ internally in the ratio....

Ans
- ✗ 1. 6:5
- ✗ 2. 10:1
- ✓ 3. 5:6
- ✗ 4. 1:10

Question Type : **MCQ**
Question ID : **292995371**
Option 1 ID : **2929951482**
Option 2 ID : **2929951483**
Option 3 ID : **2929951481**
Option 4 ID : **2929951484**
Status : **Answered**
Chosen Option : **1**

Q.38 If the line $x + 2 = 0$ coincides with one of the lines represented by the equation $x^2 + 2xy + 4y + k = 0$, then $k = \ldots$

Ans
- ✗ 1. 2
- ✗ 2. 1
- ✓ 3. -4
- ✗ 4. 4

Question Type : **MCQ**
Question ID : **292995384**
Option 1 ID : **2929951535**
Option 2 ID : **2929951536**
Option 3 ID : **2929951534**
Option 4 ID : **2929951533**
Status : **Answered**
Chosen Option : **1**

Q.39 A player tosses 2 coins. He wins rupees 1/- if no head appears, rupees 2/- if one head appears and rupees 5/- if two heads appear then his expected winning amount is rupees ....

Ans
- ✗ 1. $\frac{3}{2}$
- ✗ 2. $\frac{7}{2}$
- ✗ 3. $\frac{1}{2}$
- ✓ 4. $\frac{5}{2}$

Question Type : **MCQ**
Question ID : **292995365**
Option 1 ID : **2929951458**
Option 2 ID : **2929951460**

Z@LLEGE.in

Option 3 ID : **2929951457**
Option 4 ID : **2929951459**
Status : **Answered**
Chosen Option : **3**

Q.40 If $\bar{a}, \bar{b}, \bar{c}$ are non-zero, non coplanar vectors then $[\bar{a} - 2\bar{b} \quad 2\bar{b} + \bar{c} \quad \bar{c}] = \ldots.$

Ans
✗ 1. 0
✗ 2. $[\bar{a} \quad \bar{b} \quad \bar{c}]$
✗ 3. $3\,[\bar{a} \quad \bar{b} \quad \bar{c}]$
✓ 4. $2\,[\bar{a} \quad \bar{b} \quad \bar{c}]$

Question Type : **MCQ**
Question ID : **292995383**
Option 1 ID : **2929951530**
Option 2 ID : **2929951529**
Option 3 ID : **2929951531**
Option 4 ID : **2929951532**
Status : **Answered**
Chosen Option : **4**

Q.41 The minimum value of $z = 4x + 5y$ subject to $y \leq 2x, x \leq 2y, x + y \geq 6$, $x \geq 0, y \geq 0$ is...

Ans
✗ 1. 12
✗ 2. 28
✓ 3. 26
✗ 4. 10

Question Type : **MCQ**
Question ID : **292995356**
Option 1 ID : **2929951422**
Option 2 ID : **2929951424**
Option 3 ID : **2929951423**
Option 4 ID : **2929951421**
Status : **Answered**
Chosen Option : **4**

Q.42 Which of the following statement pattern is a Contradiction?

Ans
✗ 1. $(p \wedge q) \vee \sim p$

ZOLLEGE.in

2. $(p \wedge q) \rightarrow q$

3. $(p \wedge q) \rightarrow p$

4. $(p \wedge q) \wedge \sim p$

Question Type : MCQ
Question ID : 292995374
Option 1 ID : 2929951494
Option 2 ID : 2929951496
Option 3 ID : 2929951493
Option 4 ID : 2929951495
Status : Answered
Chosen Option : 4

Q.43 If $cosec\ A + \cot A = \frac{11}{2}$ then $\tan A = \ldots$

Ans

1. $\frac{21}{22}$

2. $\frac{15}{16}$

3. $\frac{44}{117}$

4. $\frac{117}{44}$

Question Type : MCQ
Question ID : 292995363
Option 1 ID : 2929951449
Option 2 ID : 2929951450
Option 3 ID : 2929951451
Option 4 ID : 2929951452
Status : Answered
Chosen Option : 2

ZOLLEGE.in

Q.44 The statement pattern $[p \wedge (q \vee r)] \vee [\sim r \wedge \sim q \wedge p]$ is equivalent to …

Ans

✔ 1. p

✗ 2. $p \vee r$

✗ 3. q

✗ 4. $p \wedge q$

Question Type : MCQ
Question ID : 292995386
Option 1 ID : 2929951543
Option 2 ID : 2929951541
Option 3 ID : 2929951544
Option 4 ID : 2929951542
Status : Answered
Chosen Option : 4

Q.45 If $3\sin x + 4\cos y = 6$ and $4\sin y + 3\cos x = 1$, then $x + y = \ldots$.

Ans

✗ 1. $2n\pi \pm \frac{\pi}{6}, n \in Z$

✗ 2. $n\pi + (-1)^n \frac{\pi}{3}, n \in Z$

✗ 3. $2n\pi \pm \frac{\pi}{3}, n \in Z$

✔ 4. $n\pi + (-1)^n \frac{\pi}{6}, n \in Z$

Question Type : MCQ
Question ID : 292995372
Option 1 ID : 2929951487
Option 2 ID : 2929951486
Option 3 ID : 2929951488

ZOLLEGE.in

Option 4 ID : **2929951485**
Status : **Answered**
Chosen Option : **1**

Q.46 The solution of the differential equation $\frac{dy}{dx} = \frac{y^2}{xy - x^2}$ is

Ans

✔ 1. $e^{\frac{y}{x}} = ky$

✗ 2. $e^{\frac{-y}{x}} = \mathrm{k}x$

✗ 3. $e^{\frac{y}{x}} = kx$

✗ 4. $e^{\frac{-y}{x}} = \mathrm{k}y$

Question Type : **MCQ**
Question ID : **292995352**
Option 1 ID : **2929951405**
Option 2 ID : **2929951408**
Option 3 ID : **2929951406**
Option 4 ID : **2929951407**
Status : **Answered**
Chosen Option : **1**

Q.47 If the volume of a spherical balloon increase at the rate 45 $(ft)^3/min$, then the rate of increase in its radius when it is equal to 15 ft , is _____ ft/min

Ans

✗ 1. $\frac{1}{30\,\pi}$

✔ 2. $\frac{1}{20\,\pi}$

✗ 3. $\frac{1}{25\,\pi}$

✗ 4. $\frac{1}{15\,\pi}$

Question Type : **MCQ**
Question ID : **292995364**
Option 1 ID : **2929951454**
Option 2 ID : **2929951455**
Option 3 ID : **2929951456**
Option 4 ID : **2929951453**

ZOLLEGE.in

Status : **Answered**
Chosen Option : **1**

Q.48 The foot of the perpendicular from the point (7,14, 5) to the plane $2x + 4y - z = 2$ is ....

Ans
✗ 1. (1,1,4)
✗ 2. (8,2,1)
✓ 3. (1,2,8)
✗ 4. (1,8,2)

Question Type : **MCQ**
Question ID : **292995370**
Option 1 ID : **2929951478**
Option 2 ID : **2929951477**
Option 3 ID : **2929951479**
Option 4 ID : **2929951480**
Status : **Answered**
Chosen Option : **4**

Q.49 $\int \frac{1}{x\,(x^{2019}+1)}\,dx =$

Ans
✓ 1. $\frac{1}{2019}\log\left|\frac{x^{2019}}{x^{2019}+1}\right| + C$
✗ 2. $\frac{1}{2019}\log|x(x^{2019}+1)| + C$
✗ 3. $\frac{1}{2019}\log\left|\frac{x^{2019}+1}{x^{2019}}\right| + C$
✗ 4. $\log|x^{2019}+1| + C$

Question Type : **MCQ**
Question ID : **292995367**
Option 1 ID : **2929951467**
Option 2 ID : **2929951466**
Option 3 ID : **2929951468**
Option 4 ID : **2929951465**
Status : **Answered**
Chosen Option : **3**

Q.50 If 16 and 4 are A.M. and H.M. of two positive numbers respectively, then their G.M. is....

Ans
✓ 1. 8
✗ 2. 64
✗ 3. 16
✗ 4. 4

ZOLLEGE.in

Question Type : MCQ
Question ID : 292995387
Option 1 ID : 2929951547
Option 2 ID : 2929951545
Option 3 ID : 2929951548
Option 4 ID : 2929951546
Status : Answered
Chosen Option : 1

Section : Biology

Q.1 The common phase for aerobic and anaerobic respiration is called

Ans
1. Krebs cycle
2. EMP-pathway
3. Acetylation of pyruvate
4. ETS

Question Type : MCQ
Question ID : 292995404
Option 1 ID : 2929951614
Option 2 ID : 2929951613
Option 3 ID : 2929951616
Option 4 ID : 2929951615
Status : Answered
Chosen Option : 2

Q.2 The techninque PCR is used in DNA finger printing for ...

Ans
1. DNA amplification
2. DNA isolation
3. DNA fragmentation
4. Hybridization

Question Type : MCQ
Question ID : 292995464
Option 1 ID : 2929951856
Option 2 ID : 2929951855
Option 3 ID : 2929951854
Option 4 ID : 2929951853
Status : Answered
Chosen Option : 1

Q.3 Thalassemia is a quantitaive abnormality of_____chain synthesis.

Ans
1. polysaccharide
2. polypeptide
3. poly lipo-protein
4. polystearic

Question Type : MCQ
Question ID : 292995471
Option 1 ID : 2929951881
Option 2 ID : 2929951882

ZOLLEGE.in

Option 3 ID : **2929951883**
Option 4 ID : **2929951884**
Status : **Answered**
Chosen Option : **1**

Q.4 During Calvin cycle RuBP gets regenerated through several biochemical reactions called

Ans
✗ 1. dephosphorylation reactions
✗ 2. oxidation reduction reactions
✓ 3. Sugar phosphate inter conversions
✗ 4. glycolytic reversal reactions

Question Type : **MCQ**
Question ID : **292995419**
Option 1 ID : **2929951675**
Option 2 ID : **2929951674**
Option 3 ID : **2929951673**
Option 4 ID : **2929951676**
Status : **Answered**
Chosen Option : **1**

Q.5 Testes are connected to the wall of scrotum by ...

Ans
✗ 1. Glans
✓ 2. Gubernaculum
✗ 3. Prepuce
✗ 4. Dartos tunic muscles

Question Type : **MCQ**
Question ID : **292995462**
Option 1 ID : **2929951846**
Option 2 ID : **2929951848**
Option 3 ID : **2929951845**
Option 4 ID : **2929951847**
Status : **Answered**
Chosen Option : **4**

Q.6 During photorespiration , which amino acid is formed in the peroxisome by oxidation of glyoxylate ?

Ans
✓ 1. Glycine
✗ 2. Serine
✗ 3. Valine
✗ 4. Leucine

Question Type : **MCQ**
Question ID : **292995408**
Option 1 ID : **2929951630**
Option 2 ID : **2929951631**
Option 3 ID : **2929951632**
Option 4 ID : **2929951629**
Status : **Answered**
Chosen Option : **2**

Q.7 Polygalacturonase in tomato is a .....enzyme.

Ans

Z@LLEGE.in

1. pecitn producing

2. flavour producing

3. shelf life increasing

4. pectin degrading

Question Type : **MCQ**
Question ID : **292995441**
Option 1 ID : **2929951764**
Option 2 ID : **2929951763**
Option 3 ID : **2929951761**
Option 4 ID : **2929951762**
Status : **Answered**
Chosen Option : **2**

Q.8 Which one of the following is correct about nucleoid of a prokaryote?

Ans

1. It has DNA molecule

2. It has nuclear envelope

3. It has histone proteins

4. It has well organised chromosome

Question Type : **MCQ**
Question ID : **292995445**
Option 1 ID : **2929951779**
Option 2 ID : **2929951777**
Option 3 ID : **2929951780**
Option 4 ID : **2929951778**
Status : **Answered**
Chosen Option : **3**

Q.9 Man-Like character of *Australopithecus* was ...

Ans

1. Distinct lumbar curvature

2. Prognathous face

3. Absence of chin

4. Protruding eye-brow ridges.

Question Type : **MCQ**
Question ID : **292995484**
Option 1 ID : **2929951935**
Option 2 ID : **2929951933**
Option 3 ID : **2929951934**
Option 4 ID : **2929951936**
Status : **Answered**
Chosen Option : **2**

Q.1 Two alternative forms of a gene present on identical loci of homologous chromosomes are called
0

Ans

1. alleles

2. polygenes

3. factors

4. traits

ZOLLEGE.in

Question Type : **MCQ**
Question ID : **292995403**
Option 1 ID : **2929951612**
Option 2 ID : **2929951609**
Option 3 ID : **2929951610**
Option 4 ID : **2929951611**
Status : **Answered**
Chosen Option : **1**

Q.1 Baby Neha, two years old is showing symptoms of protruding belly, bulging eyes, oedema of lower legs. She is probably suffering from ...
1

Ans
✗ 1. Constipation
✗ 2. Indigestion
✗ 3. Marasmus
✓ 4. Kwashiorkor

Question Type : **MCQ**
Question ID : **292995485**
Option 1 ID : **2929951939**
Option 2 ID : **2929951940**
Option 3 ID : **2929951937**
Option 4 ID : **2929951938**
Status : **Answered**
Chosen Option : **4**

Q.1 A codon is present in....
2

Ans
✗ 1. DNA
✓ 2. m-RNA
✗ 3. r-RNA
✗ 4. t-RNA

Question Type : **MCQ**
Question ID : **292995416**
Option 1 ID : **2929951664**
Option 2 ID : **2929951663**
Option 3 ID : **2929951662**
Option 4 ID : **2929951661**
Status : **Answered**
Chosen Option : **3**

Q.1 Gregor Mendel was NOT known as ...
3

Ans
✗ 1. Genetecist
✗ 2. Teacher
✗ 3. Preist
✓ 4. Physicist

Question Type : **MCQ**
Question ID : **292995440**
Option 1 ID : **2929951758**
Option 2 ID : **2929951760**
Option 3 ID : **2929951757**
Option 4 ID : **2929951759**

ZOLLEGE.in

Status : **Answered**
Chosen Option : **3**

Q.1 4 Opioids are obtained from _____plant.

Ans
- ✗ 1. Hemp
- ✗ 2. *Datura*
- ✓ 3. Poppy
- ✗ 4. Coca

Question Type : **MCQ**
Question ID : **292995486**
Option 1 ID : **2929951942**
Option 2 ID : **2929951944**
Option 3 ID : **2929951943**
Option 4 ID : **2929951941**
Status : **Answered**
Chosen Option : **2**

Q.1 5 In a cross between Rr x rr, which one of the following characteristic will be observed in the offspring?

Ans
- ✗ 1. 75% are recessive
- ✓ 2. 50% are recessive
- ✗ 3. All are dominant
- ✗ 4. All are recessive

Z@LLEGE.in

Question Type : **MCQ**
Question ID : **292995423**
Option 1 ID : **2929951691**
Option 2 ID : **2929951692**
Option 3 ID : **2929951689**
Option 4 ID : **2929951690**
Status : **Answered**
Chosen Option : **1**

Q.1 6 Pollination through agency of bats is called

Ans
- ✓ 1. Chiropterophily
- ✗ 2. Ornithophily
- ✗ 3. Malacophily
- ✗ 4. Hydrophily

Question Type : **MCQ**
Question ID : **292995438**
Option 1 ID : **2929951750**
Option 2 ID : **2929951749**
Option 3 ID : **2929951752**
Option 4 ID : **2929951751**
Status : **Answered**
Chosen Option : **1**

Q.1 7 Which one of the following enzyme involved in alcoholic fermentation of sucrose ?

ZOLLEGE.in

Ans
1. Oxidase
2. Zymase
3. Hexokinase
4. Isomerase

Question Type : MCQ
Question ID : 292995444
Option 1 ID : 2929951775
Option 2 ID : 2929951774
Option 3 ID : 2929951776
Option 4 ID : 2929951773
Status : Answered
Chosen Option : 3

Q.1 Chipko movement was started in .....in the year 1974.
8

Ans
1. Pune
2. Bangalore
3. Jodhpur
4. Garhwal

Question Type : MCQ
Question ID : 292995409
Option 1 ID : 2929951636
Option 2 ID : 2929951635
Option 3 ID : 2929951633
Option 4 ID : 2929951634
Status : Answered
Chosen Option : 3

Q.1 Inbreeding depression can be overcome by single ....
9

Ans
1. Interspecific hybridization
2. Crossbreeding
3. Test crossing
4. Outcrossing

Question Type : MCQ
Question ID : 292995453
Option 1 ID : 2929951811
Option 2 ID : 2929951809
Option 3 ID : 2929951812
Option 4 ID : 2929951810
Status : Answered
Chosen Option : 3

Q.2 PEPCase fixes CO_2 in ...
0

Ans
1. Calvin cycle
2. bundle sheath cells of C_4 plants
3. The mesophyll cells of C_4 plants
4. high concentration of CO_2

Z@LLEGE.in

Question Type : MCQ
Question ID : 292995442
Option 1 ID : 2929951765
Option 2 ID : 2929951767
Option 3 ID : 2929951768
Option 4 ID : 2929951766
Status : Answered
Chosen Option : 1

Q.2 Agar-agar is used as ....in plant tissue culture.
1

Ans
✔ 1. nutrient medium
✘ 2. growth factor
✘ 3. Fusogenic agent
✘ 4. non solidifying agent

Question Type : MCQ
Question ID : 292995436
Option 1 ID : 2929951741
Option 2 ID : 2929951743
Option 3 ID : 2929951744
Option 4 ID : 2929951742
Status : Answered
Chosen Option : 3

Q.2 Wall of the carotid bodies have
2

Ans
✘ 1. Photoreceptors for detecting the nature of light
✘ 2. Chemoreceptors for detecting smell
✔ 3. Baroreceptors for detecting blood pressure
✘ 4. Thermoereceptors for detecting temperture

Question Type : MCQ
Question ID : 292995466
Option 1 ID : 2929951862
Option 2 ID : 2929951864
Option 3 ID : 2929951863
Option 4 ID : 2929951861
Status : Answered
Chosen Option : 1

Q.2 Spermatid formed at the end of meiosis-II is non-motile. It has to undergo.....to become
3 functional and motile spermatozoan.

Ans
✘ 1. metagenesis
✘ 2. spermatogenesis
✔ 3. spermiogenesis
✘ 4. parthenogenesis

Question Type : MCQ
Question ID : 292995491
Option 1 ID : 2929951961
Option 2 ID : 2929951962
Option 3 ID : 2929951964

ZOLLEGE.in

Option 4 ID : **2929951963**
Status : **Answered**
Chosen Option : **2**

Q.2 4 Dr.Norman Borlaug developed...

Ans
- ✔ 1. semidwarf variety of wheat
- ✘ 2. tall variety of wheat
- ✘ 3. semidwarf variety of rice
- ✘ 4. tall variety of rice

Question Type : **MCQ**
Question ID : **292995447**
Option 1 ID : **2929951788**
Option 2 ID : **2929951786**
Option 3 ID : **2929951785**
Option 4 ID : **2929951787**
Status : **Answered**
Chosen Option : **1**

Q.2 5 Which among the follwing is the largest taxon ?

Ans
- ✘ 1. Ranales
- ✘ 2. Tiliaceae
- ✔ 3. Gamopetalae
- ✘ 4. *Hibiscus*

Question Type : **MCQ**
Question ID : **292995430**
Option 1 ID : **2929951719**
Option 2 ID : **2929951718**
Option 3 ID : **2929951720**
Option 4 ID : **2929951717**
Status : **Answered**
Chosen Option : **2**

Q.2 6 Which one of the following is not an unsaturated fatty acid ?

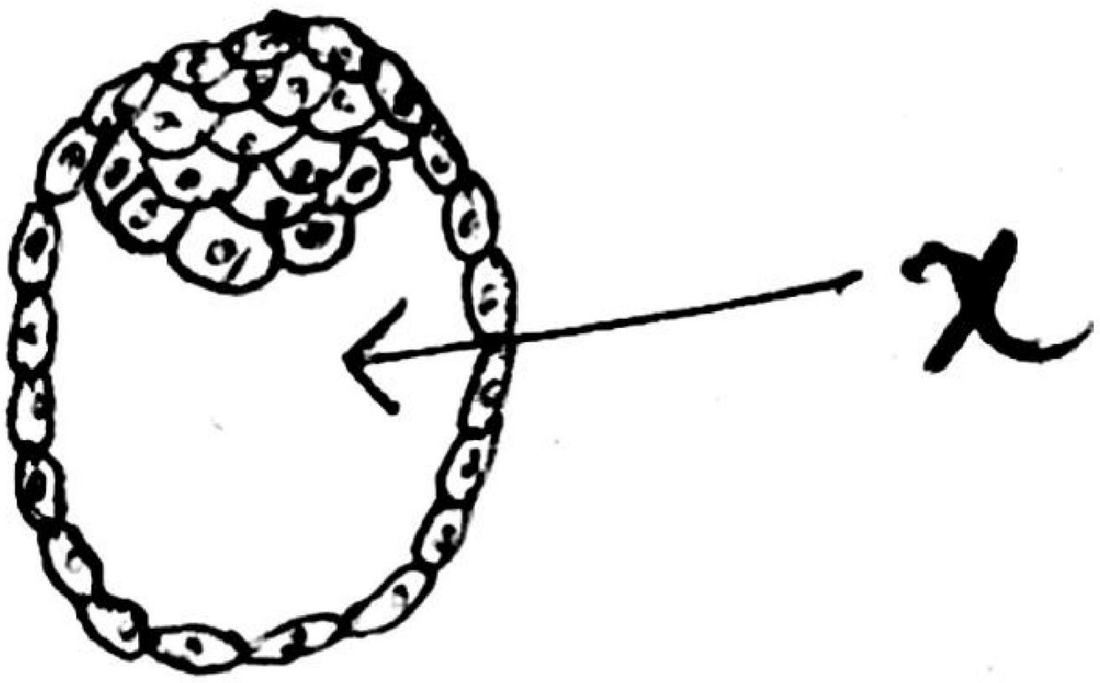
Ans
- ✘ 1. Linoleic acid
- ✘ 2. Oleic acid
- ✔ 3. Palmitic acid
- ✘ 4. Palmitoleic acid

Question Type : **MCQ**
Question ID : **292995450**
Option 1 ID : **2929951800**
Option 2 ID : **2929951797**
Option 3 ID : **2929951798**
Option 4 ID : **2929951799**
Status : **Answered**
Chosen Option : **2**

Q.2

Z@LLEGE.in

7 In the given diagram of v.s. of Blastula,
What does 'X' indicate ?



Ans
- ✗ 1. Archenteron
- ✗ 2. Antrum
- ✗ 3. Enteron
- ✓ 4. Blastocoel

Question Type : MCQ
Question ID : 292995499
Option 1 ID : 2929951995
Option 2 ID : 2929951993
Option 3 ID : 2929951994
Option 4 ID : 2929951996
Status : Answered
Chosen Option : 4

Q.2 Production of beer from barley through the fermentation process includes steps as
8

Ans
- ✗ 1. Boiling, distillation, fermentation
- ✗ 2. Filtration, distillation, sedimentation
- ✓ 3. Malting, mashing, fermentation
- ✗ 4. Drying, spawning, fermentation, distillation

Question Type : MCQ
Question ID : 292995412
Option 1 ID : 2929951645
Option 2 ID : 2929951648
Option 3 ID : 2929951647
Option 4 ID : 2929951646
Status : Answered
Chosen Option : 2

Q.2 In cellular respiration, when proteins are used as substrate then what is the value of RQ?
9

Ans

ZOLLEGE.in

1. Always1

2. About 0.9

3. Always infinity

4. About 0.7

Question Type : MCQ
Question ID : 292995415
Option 1 ID : 2929951657
Option 2 ID : 2929951658
Option 3 ID : 2929951660
Option 4 ID : 2929951659
Status : Answered
Chosen Option : 1

Q.30 How many ATP molecules are generated through Electron Transport System in aerobic respiration from one glucose molecule?

Ans

1. 36 ATP

2. 38 ATP

3. 34ATP

4. 40 ATP

Question Type : MCQ
Question ID : 292995411
Option 1 ID : 2929951643
Option 2 ID : 2929951642
Option 3 ID : 2929951644
Option 4 ID : 2929951641
Status : Answered
Chosen Option : 2

Q.31 In prokaryotes.... is the outermost covering of the cell envelope.

Ans

1. Plasma membrane

2. Tonoplast

3. Cell wall

4. Glycocalyx

Question Type : MCQ
Question ID : 292995494
Option 1 ID : 2929951974
Option 2 ID : 2929951976
Option 3 ID : 2929951973
Option 4 ID : 2929951975
Status : Answered
Chosen Option : 3

Q.32 A biologist studied the population of tiger in tadoba national park (Maharashtra). He found that the average natality was 150, average mortality 140, immigration 10 and emigration 20. The net increase in population was_____.

Ans

1. 15

2. 10

3. 0

Z@LLEGE.in

✗ 4. 5

Question Type : MCQ
Question ID : 292995500
Option 1 ID : 2929951997
Option 2 ID : 2929952000
Option 3 ID : 2929951999
Option 4 ID : 2929951998
Status : Answered
Chosen Option : 2

Q.3 Peristaltic movements are carried out by ....
3

Ans
✗ 1. Cardiac muscles
✓ 2. Visceral muscles
✗ 3. Voluntary muscles
✗ 4. Dartos tunic muscles

Question Type : MCQ
Question ID : 292995492
Option 1 ID : 2929951968
Option 2 ID : 2929951965
Option 3 ID : 2929951966
Option 4 ID : 2929951967
Status : Answered
Chosen Option : 4

Q.3 Which one of the following is NOT artificial vegetative propogation?
4

Ans
✗ 1. Grafting
✗ 2. Budding
✗ 3. Cutting
✓ 4. Runner

Question Type : MCQ
Question ID : 292995414
Option 1 ID : 2929951656
Option 2 ID : 2929951653
Option 3 ID : 2929951654
Option 4 ID : 2929951655
Status : Answered
Chosen Option : 4

Q.3 Which one of the following enzyme is used for polymerisation of DNA in PCR technique ?
5

Ans
✗ 1. DNA Polymerase-II
✗ 2. RNA Polymerase
✗ 3. DNA Polymerase-I
✓ 4. Taq Polymerase

Question Type : MCQ
Question ID : 292995449
Option 1 ID : 2929951794

ZOLLEGE.in

Option 2 ID : **2929951795**
Option 3 ID : **2929951793**
Option 4 ID : **2929951796**
Status : **Answered**
Chosen Option : **3**

Q.36 Plantation of trees in barren & unexploited land to improve environment is known as.....

Ans
- ✗ 1. Reforestation
- ✗ 2. Social forestry
- ✓ 3. Aforestation
- ✗ 4. Deforestation

Question Type : **MCQ**
Question ID : **292995417**
Option 1 ID : **2929951665**
Option 2 ID : **2929951668**
Option 3 ID : **2929951667**
Option 4 ID : **2929951666**
Status : **Answered**
Chosen Option : **1**

Q.37 The sum total of genes of all individuals of an interbreeding population is called ....

Ans
- ✗ 1. gene frequency
- ✗ 2. gene mutation
- ✓ 3. gene pool
- ✗ 4. gene flow

Question Type : **MCQ**
Question ID : **292995459**
Option 1 ID : **2929951836**
Option 2 ID : **2929951833**
Option 3 ID : **2929951835**
Option 4 ID : **2929951834**
Status : **Answered**
Chosen Option : **3**

Q.38 Primary goal of the Human Genome Project (HGP) was to generate two main types of maps namely, ...maps and ....maps

Ans
- ✗ 1. Mutation; Physical
- ✓ 2. Genetic linkage; physical
- ✗ 3. Racial ; physical
- ✗ 4. Genetic linkage; mutation

Question Type : **MCQ**
Question ID : **292995488**
Option 1 ID : **2929951949**
Option 2 ID : **2929951950**
Option 3 ID : **2929951952**
Option 4 ID : **2929951951**
Status : **Answered**
Chosen Option : **1**

Z@LLEGE.in

Q.3 Papaya plant always shows...
9

Ans
- ✗ 1. autogamy
- ✗ 2. dichogamy
- ✗ 3. geitonogamy
- ✓ 4. xenogamy

Question Type : **MCQ**
Question ID : **292995406**
Option 1 ID : **2929951621**
Option 2 ID : **2929951623**
Option 3 ID : **2929951622**
Option 4 ID : **2929951624**
Status : **Answered**
Chosen Option : **4**

Q.4 Which hormone is secreted by Graafian follicle of ovary ?
0

Ans
- ✗ 1. LH
- ✗ 2. FSH
- ✗ 3. Progesterone
- ✓ 4. Oestrogen

Question Type : **MCQ**
Question ID : **292995473**
Option 1 ID : **2929951892**
Option 2 ID : **2929951890**
Option 3 ID : **2929951889**
Option 4 ID : **2929951891**
Status : **Answered**
Chosen Option : **3**

Q.4 Gemmule formation takes place in ...
1

Ans
- ✗ 1. *Amoeba*
- ✗ 2. Planaria
- ✗ 3. *Hydra*
- ✓ 4. *Ephydatia*

Question Type : **MCQ**
Question ID : **292995479**
Option 1 ID : **2929951916**
Option 2 ID : **2929951915**
Option 3 ID : **2929951913**
Option 4 ID : **2929951914**
Status : **Answered**
Chosen Option : **4**

Q.4 Out of 18 ATP molecules required during the synthesis of a glucose molecule how many are used in the regeneration of 6 RuBP?
2

Ans
- ✗ 1. 3
- ✗ 2. 4

Z@LLEGE.in

ZOLLEGE.in

✔ 3. 6

✘ 4. 5

Question Type : MCQ
Question ID : 292995401
Option 1 ID : 2929951601
Option 2 ID : 2929951602
Option 3 ID : 2929951604
Option 4 ID : 2929951603
Status : Answered
Chosen Option : 2

Q.4 Father of Electrocardiography is ....
3

Ans
✘ 1. James Watson

✘ 2. Johann Mendel

✔ 3. Einthoven

✘ 4. William Harvey

Question Type : MCQ
Question ID : 292995489
Option 1 ID : 2929951955
Option 2 ID : 2929951954
Option 3 ID : 2929951953
Option 4 ID : 2929951956
Status : Answered
Chosen Option : 1

Q.4 If coronary sinus : right atrium , then, left ventricle :_____
4

Ans
✘ 1. Pulmonary vein

✔ 2. Systemic aorta

✘ 3. Pulmonary aorta

✘ 4. Left atrium

Question Type : MCQ
Question ID : 292995482
Option 1 ID : 2929951927
Option 2 ID : 2929951928
Option 3 ID : 2929951926
Option 4 ID : 2929951925
Status : Answered
Chosen Option : 2

Q.4 With reference to age structure, the number of individuals in a growing population has
5 ....individuals.

Ans
✘ 1. equal number of pre and post reproductive

✘ 2. large number of post reproductive

✘ 3. least number of reproductive

✔ 4. larger number of pre reproductive

Question Type : MCQ
Question ID : 292995483

ZOLLEGE.in

Option 1 ID : **2929951930**
Option 2 ID : **2929951932**
Option 3 ID : **2929951931**
Option 4 ID : **2929951929**
Status : **Answered**
Chosen Option : **4**

Q.4 The factor which directly does NOT affect the rate of photosynthesis is....
6

Ans
✗ 1. CO_2 concentration
✗ 2. Temperature
✓ 3. Water
✗ 4. Light

Question Type : **MCQ**
Question ID : **292995431**
Option 1 ID : **2929951723**
Option 2 ID : **2929951724**
Option 3 ID : **2929951722**
Option 4 ID : **2929951721**
Status : **Answered**
Chosen Option : **2**

Q.4 The proportion of Hydrogen to Oxygen in carbohydrates is_____respectively.
7

Ans
✓ 1. 2:1
✗ 2. 2:3
✗ 3. 1:2
✗ 4. 3:2

Question Type : **MCQ**
Question ID : **292995435**
Option 1 ID : **2929951737**
Option 2 ID : **2929951740**
Option 3 ID : **2929951739**
Option 4 ID : **2929951738**
Status : **Answered**
Chosen Option : **1**

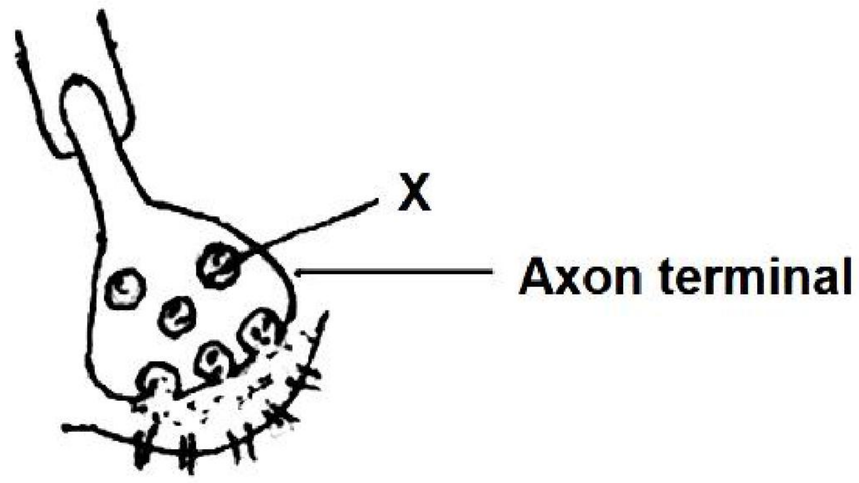
Q.4 Hormone relaxin is secreted by ...
8

Ans
✗ 1. Corpus Callosum
✗ 2. Graafian follicle
✓ 3. Corpus luteum
✗ 4. Corpora striata

Question Type : **MCQ**
Question ID : **292995480**
Option 1 ID : **2929951919**
Option 2 ID : **2929951918**
Option 3 ID : **2929951917**
Option 4 ID : **2929951920**
Status : **Answered**
Chosen Option : **3**

ZOLLEGE.in

Q.49 In the given diagram the fluid/secretion found in part X is_____.



Ans
✗ 1. Cerebrospinal fluid
✓ 2. Acetyl Choline
✗ 3. Endolymph
✗ 4. Extracellular fluid

Question Type : MCQ
Question ID : 292995452
Option 1 ID : 2929951806
Option 2 ID : 2929951805
Option 3 ID : 2929951807
Option 4 ID : 2929951808
Status : Answered
Chosen Option : 2

Q.50 Example of lethal gene is...

Ans
✗ 1. wings in *Drosophila*
✗ 2. colour of flower in four O' clock plant
✓ 3. sickle cell anaemia
✗ 4. kernel colour of wheat

Question Type : MCQ
Question ID : 292995410
Option 1 ID : 2929951639
Option 2 ID : 2929951640
Option 3 ID : 2929951638
Option 4 ID : 2929951637
Status : Answered
Chosen Option : 1

Q.51 Opening & closing of stomata is due to ...

Ans
✗ 1. gaseous exchange
✓ 2. change in turgor pressure of guard cells
✗ 3. guttation
✗ 4. respiration

Question Type : MCQ

ZOLLEGE.in

Question ID : **292995439**
Option 1 ID : **2929951753**
Option 2 ID : **2929951754**
Option 3 ID : **2929951756**
Option 4 ID : **2929951755**
Status : **Answered**
Chosen Option : **4**

Q.5 Which of the following organisms show both cell wall & chlorophyll ?
2

Ans
✗ 1. Euglena
✗ 2. Agaricus
✓ 3. Funaria
✗ 4. Amoeba

Question Type : **MCQ**
Question ID : **292995407**
Option 1 ID : **2929951626**
Option 2 ID : **2929951628**
Option 3 ID : **2929951625**
Option 4 ID : **2929951627**
Status : **Answered**
Chosen Option : **1**

Q.5 The wall of eye ball is formed by ....
3

Ans
✓ 1. Outer sclera, middle choroid & inner retina
✗ 2. Outer choroid , middle sclera, & inner fovea
✗ 3. Outer sclera, middle cornea, & Inner retina
✗ 4. Outer choroid, middle cornea & inner fovea

Question Type : **MCQ**
Question ID : **292995495**
Option 1 ID : **2929951977**
Option 2 ID : **2929951979**
Option 3 ID : **2929951978**
Option 4 ID : **2929951980**
Status : **Answered**
Chosen Option : **3**

Q.5 The part of chromosome beyond nucleolar organizer is termed as
4

Ans
✗ 1. Telomere
✓ 2. Satellite
✗ 3. Chromomere
✗ 4. Centromere

Question Type : **MCQ**
Question ID : **292995465**
Option 1 ID : **2929951857**
Option 2 ID : **2929951858**
Option 3 ID : **2929951859**
Option 4 ID : **2929951860**
Status : **Answered**

ZOLLEGE.in

Chosen Option : 3

Q.5 5 Mushrooms are rich in

Ans
- ✔ 1. vitamins and proteins
- ✘ 2. amino acids and starch
- ✘ 3. minerals and starch
- ✘ 4. proteins and lipids

Question Type : MCQ
Question ID : 292995429
Option 1 ID : 2929951713
Option 2 ID : 2929951714
Option 3 ID : 2929951715
Option 4 ID : 2929951716
Status : Answered
Chosen Option : 1

Q.5 6 Which substance is released by thrombocytes while initiating blood clotting process ?

Ans
- ✘ 1. Anti thrombin
- ✔ 2. Thromboplastin
- ✘ 3. Heparin
- ✘ 4. Histamine

Question Type : MCQ
Question ID : 292995477
Option 1 ID : 2929951906
Option 2 ID : 2929951908
Option 3 ID : 2929951907
Option 4 ID : 2929951905
Status : Answered
Chosen Option : 2

Q.5 7 What will be correct sequence of these according to ascending order of their molecular weights ?

Ans
- ✘ 1. tRNA, DNA, rRNA
- ✔ 2. tRNA, rRNA, DNA
- ✘ 3. DNA, rRNA, tRNA
- ✘ 4. rRNA, t RNA, DNA

Question Type : MCQ
Question ID : 292995448
Option 1 ID : 2929951792
Option 2 ID : 2929951791
Option 3 ID : 2929951790
Option 4 ID : 2929951789
Status : Answered
Chosen Option : 3

Q.5 8 Euchromatin is the part of chromatin material, which is ..

Ans
- ✘ 1. genetically inert

Z@LLEGE.in

✗ 2. darkly stained

✓ 3. genetically active

✗ 4. condensed region of chromatin

Question Type : **MCQ**
Question ID : **292995496**
Option 1 ID : **2929951984**
Option 2 ID : **2929951981**
Option 3 ID : **2929951983**
Option 4 ID : **2929951982**
Status : **Answered**
Chosen Option : **2**

Q.5 For the formation of 80 male gemetes how many pollen mother cells are required ?
9

Ans

✗ 1. 15

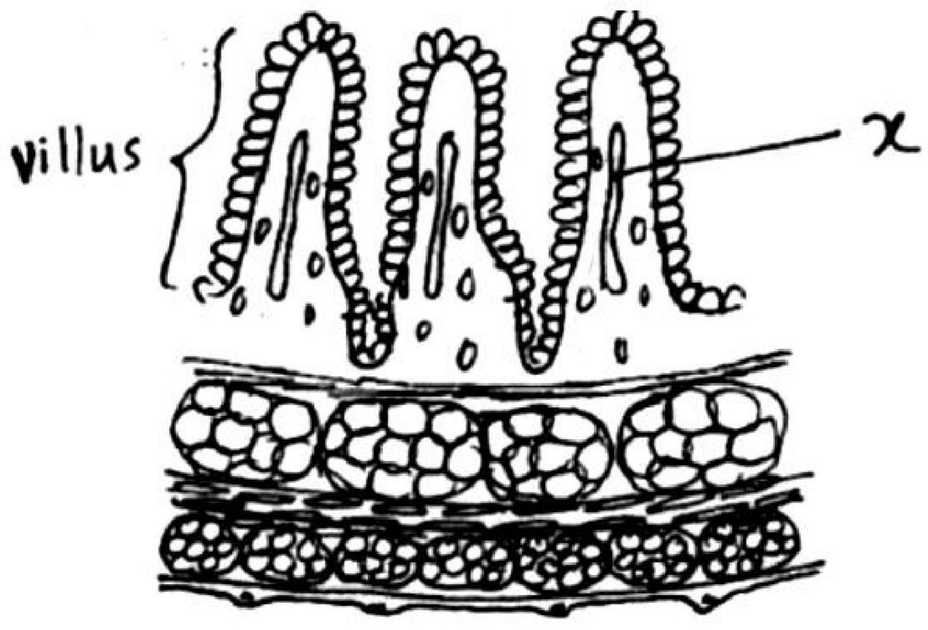
✗ 2. 20

✓ 3. 10

✗ 4. 5

Question Type : **MCQ**
Question ID : **292995422**
Option 1 ID : **2929951687**
Option 2 ID : **2929951688**
Option 3 ID : **2929951686**
Option 4 ID : **2929951685**
Status : **Answered**
Chosen Option : **2**

Q.6
0 In the given diagram 'X' stands for_____.



Ans

✗ 1. Mucosa which absorbs nutrients from digested food

✓ 2. Lacteal which absorbs fatty acids and glycerol

✗ 3. Blood vessel which absorbs digested food

✗ 4. Lacteal which absorbs glucose and amino acids

Question Type : **MCQ**
Question ID : **292995470**

ZOLLEGE.in

Option 1 ID : **2929951880**
Option 2 ID : **2929951878**
Option 3 ID : **2929951877**
Option 4 ID : **2929951879**
Status : **Answered**
Chosen Option : **3**

Q.6 Which of the following are also called as polymorphs?
1

Ans
- ✔ 1. Neutrophils
- ✗ 2. Lymphocytes
- ✗ 3. Basophils
- ✗ 4. Macrophages

Question Type : **MCQ**
Question ID : **292995458**
Option 1 ID : **2929951830**
Option 2 ID : **2929951831**
Option 3 ID : **2929951829**
Option 4 ID : **2929951832**
Status : **Answered**
Chosen Option : **1**

Q.6 Kidneys do not carry out the function of ...
2

Ans
- ✔ 1. Urea formation
- ✗ 2. Osmoregulation
- ✗ 3. Natriuresis
- ✗ 4. Excretion

Question Type : **MCQ**
Question ID : **292995469**
Option 1 ID : **2929951873**
Option 2 ID : **2929951876**
Option 3 ID : **2929951875**
Option 4 ID : **2929951874**
Status : **Answered**
Chosen Option : **3**

Q.6 Which one of the following is a rich source of cytokinins?
3

Ans
- ✗ 1. Butter milk
- ✗ 2. Peanut milk
- ✔ 3. Coconut milk
- ✗ 4. Grape juice

Question Type : **MCQ**
Question ID : **292995424**
Option 1 ID : **2929951693**
Option 2 ID : **2929951695**
Option 3 ID : **2929951694**
Option 4 ID : **2929951696**
Status : **Answered**
Chosen Option : **2**

ZOLLEGE.in

Q.6 The development of male gametophyte from a pollen mother cell shows .....divisions.
4

Ans
✔ 1. one meiotic & two mitotic
✗ 2. two meiotic & two mitotic
✗ 3. one meiotic & one mitotic
✗ 4. one meiotic & three mitotic

Question Type : **MCQ**
Question ID : **292995426**
Option 1 ID : **2929951702**
Option 2 ID : **2929951704**
Option 3 ID : **2929951701**
Option 4 ID : **2929951703**
Status : **Answered**
Chosen Option : **4**

Q.6 Ascaris needs .....host/s for completion of its life cycle.
5

Ans
✔ 1. one
✗ 2. three
✗ 3. two
✗ 4. four

Question Type : **MCQ**
Question ID : **292995472**
Option 1 ID : **2929951885**
Option 2 ID : **2929951887**
Option 3 ID : **2929951886**
Option 4 ID : **2929951888**
Status : **Answered**
Chosen Option : **1**

Q.6 Each nerve is surrounded by thick sheath of a connective tissue called _____
6

Ans
✗ 1. epineurium
✗ 2. perichondrium
✗ 3. Perineurium
✔ 4. endoneurium

Question Type : **MCQ**
Question ID : **292995497**
Option 1 ID : **2929951986**
Option 2 ID : **2929951987**
Option 3 ID : **2929951985**
Option 4 ID : **2929951988**
Status : **Answered**
Chosen Option : **4**

Q.6 During fertilization, entry of the sperm into secondary oocyte stimulates all of the following
7 events EXCEPT..... ...

Ans
✗ 1. Completion of meiosis-II

Z@LLEGE.in

✔ 2. Formation of vitelline membrane

✘ 3. Release of second polar body

✘ 4. Introduction of centrioles in the secondary oocyte

Question Type : **MCQ**
Question ID : **292995467**
Option 1 ID : **2929951865**
Option 2 ID : **2929951868**
Option 3 ID : **2929951867**
Option 4 ID : **2929951866**
Status : **Answered**
Chosen Option : **1**

Q.68 Read the follwing statements and select the one which explains " Factors" with reference to environment.

Ans

✘ 1. A particular place where organisms live

✘ 2. Environmental complex

✔ 3. External forces, substances or conditions, which can affect the living organism in one or the other way .

✘ 4. Organisms which not merely occupy the place but also specify functional role in the community

Question Type : **MCQ**
Question ID : **292995425**
Option 1 ID : **2929951697**
Option 2 ID : **2929951699**
Option 3 ID : **2929951698**
Option 4 ID : **2929951700**
Status : **Answered**
Chosen Option : **4**

Q.69 At the end of oogenesis, ...polar bodies are formed.

Ans

✔ 1. Three

✘ 2. Two

✘ 3. One

✘ 4. Four

Question Type : **MCQ**
Question ID : **292995461**
Option 1 ID : **2929951843**
Option 2 ID : **2929951842**
Option 3 ID : **2929951841**
Option 4 ID : **2929951844**
Status : **Answered**
Chosen Option : **3**

Q.70 Identify the INCORRECT match

Ans

✔ 1. Scrubber - Agricultural waste

✘ 2. Fish management -Water pollution

✘ 3. Land fillings - Radioactive wastes

✘ 4. Electrodialysis- Water purification

Z@LLEGE.in

Question Type : **MCQ**
Question ID : **292995487**
Option 1 ID : **2929951948**
Option 2 ID : **2929951947**
Option 3 ID : **2929951946**
Option 4 ID : **2929951945**
Status : **Answered**
Chosen Option : **1**

Q.7 The association of *Rhizobium* with root nodules in leguminous plants is called..
1

Ans
✗ 1. Commensalism
✓ 2. Mutualism
✗ 3. Predation
✗ 4. Parasitism

Question Type : **MCQ**
Question ID : **292995443**
Option 1 ID : **2929951769**
Option 2 ID : **2929951770**
Option 3 ID : **2929951772**
Option 4 ID : **2929951771**
Status : **Answered**
Chosen Option : **4**

Q.7 The first vaccine was produced in an attempt to provide protection against...
2

Ans
✓ 1. Small pox
✗ 2. Tuberculosis
✗ 3. Polio
✗ 4. Chicken pox

Question Type : **MCQ**
Question ID : **292995455**
Option 1 ID : **2929951818**
Option 2 ID : **2929951817**
Option 3 ID : **2929951819**
Option 4 ID : **2929951820**
Status : **Answered**
Chosen Option : **4**

Q.7 Antigen binding site (Paratope) of an antibody is present in ..
3

Ans
✗ 1. Variable region of light chain
✓ 2. Variable region of both heavy and light chain
✗ 3. Variable region of heavy chain
✗ 4. Constant region of both light and heavy chain

Question Type : **MCQ**
Question ID : **292995481**
Option 1 ID : **2929951923**
Option 2 ID : **2929951922**

ZOLLEGE.in

Option 3 ID : **2929951921**
Option 4 ID : **2929951924**
Status : **Answered**
Chosen Option : **4**

Q.7 A tall, axial flower bearing pea plant can have how many different genotypes?
4

Ans
✗ 1. Three
✗ 2. Two
✓ 3. Four
✗ 4. One

Question Type : **MCQ**
Question ID : **292995427**
Option 1 ID : **2929951707**
Option 2 ID : **2929951706**
Option 3 ID : **2929951708**
Option 4 ID : **2929951705**
Status : **Answered**
Chosen Option : **3**

Q.7 The hormone melatonin is concerned with ...
5

Ans
✗ 1. Homeostasis
✗ 2. Metabolism
✓ 3. Biological rhythm
✗ 4. Muscle tone

Question Type : **MCQ**
Question ID : **292995454**
Option 1 ID : **2929951815**
Option 2 ID : **2929951813**
Option 3 ID : **2929951816**
Option 4 ID : **2929951814**
Status : **Answered**
Chosen Option : **3**

Q.7 Which of the following pairs shows heterogamesis?
6

Ans
✗ 1. Human male and Avian Male
✗ 2. Female banded krait and human female
✗ 3. Male banded krait and human female
✓ 4. Human male and avian female

Question Type : **MCQ**
Question ID : **292995474**
Option 1 ID : **2929951896**
Option 2 ID : **2929951893**
Option 3 ID : **2929951895**
Option 4 ID : **2929951894**
Status : **Answered**
Chosen Option : **4**

Z@LLEGE.in

Q.7 The respiratory and the food passages cross each other in the ...
7

Ans
- ✗ 1. Sensory part of nasal chamber
- ✗ 2. Naso Pharynx
- ✗ 3. Oro-Pharynx
- ✓ 4. Pharynx

Question Type : MCQ
Question ID : 292995475
Option 1 ID : 2929951899
Option 2 ID : 2929951898
Option 3 ID : 2929951897
Option 4 ID : 2929951900
Status : Answered
Chosen Option : 3

Q.7 Emasculation is done in flowers before anthesis to prevent _____.
8

Ans
- ✗ 1. hybridization
- ✓ 2. autogamy
- ✗ 3. allogamy
- ✗ 4. xenogamy

Question Type : MCQ
Question ID : 292995418
Option 1 ID : 2929951672
Option 2 ID : 2929951669
Option 3 ID : 2929951670
Option 4 ID : 2929951671
Status : Answered
Chosen Option : 2

Q.7 The enzyme useful in gene amplification in PCR is ....
9

Ans
- ✗ 1. Endolysin
- ✓ 2. Taq polymerase
- ✗ 3. Alkaline phosphatase
- ✗ 4. Transposase

Question Type : MCQ
Question ID : 292995437
Option 1 ID : 2929951747
Option 2 ID : 2929951745
Option 3 ID : 2929951748
Option 4 ID : 2929951746
Status : Answered
Chosen Option : 2

Q.8 Epigeal Germination is seen in ....
0

Ans
- ✗ 1. Mango
- ✓ 2. Tamarind

Z@LLEGE.in

ZOLLEGE.in

✗ 3. Groundnut

✗ 4. Pea

Question Type : **MCQ**
Question ID : **292995428**
Option 1 ID : **2929951710**
Option 2 ID : **2929951712**
Option 3 ID : **2929951709**
Option 4 ID : **2929951711**
Status : **Answered**
Chosen Option : **4**

Q.8 Find out the wrongly matched pair.
1

Ans
✓ 1. Protogyny-*Pisum sativum*

✗ 2. Protandry-sunflower

✗ 3. Self sterility-orchids

✗ 4. Unisexuality -castor

Question Type : **MCQ**
Question ID : **292995446**
Option 1 ID : **2929951783**
Option 2 ID : **2929951782**
Option 3 ID : **2929951781**
Option 4 ID : **2929951784**
Status : **Answered**
Chosen Option : **1**

Q.8 Pneumotaxic centre is located in the...
2

Ans
✓ 1. Pons

✗ 2. Cerebrum

✗ 3. Cerebellum

✗ 4. Medulla oblongata

Question Type : **MCQ**
Question ID : **292995460**
Option 1 ID : **2929951837**
Option 2 ID : **2929951839**
Option 3 ID : **2929951838**
Option 4 ID : **2929951840**
Status : **Answered**
Chosen Option : **2**

Q.8 Which substance out of following decrease the heart rate ?
3

Ans
✗ 1. Adrenaline

✗ 2. Erythropoietin

✗ 3. Caffeine

✓ 4. Acetylcholine

Question Type : **MCQ**
Question ID : **292995490**

ZOLLEGE.in

Option 1 ID : **2929951957**
Option 2 ID : **2929951958**
Option 3 ID : **2929951960**
Option 4 ID : **2929951959**
Status : **Answered**
Chosen Option : **4**

Q.84 Match the following pairs & choose correct option

	Column I		Column II
a	Sulphur	1	Constituent of phospholipid
b	Phosphorus	2	Constituent of cell wall
c	Calcium	3	Constituent of ferredoxin
d	Iron	4	Constituent of methionine

Ans
✗ 1. a-1, b-4, c-3, d-2
✓ 2. a-4, b-1, c-2, d-3
✗ 3. a-3, b-2, c-4, d-1
✗ 4. a-4, b-3, c-1, d-2

Question Type : **MCQ**
Question ID : **292995413**
Option 1 ID : **2929951651**
Option 2 ID : **2929951652**
Option 3 ID : **2929951650**
Option 4 ID : **2929951649**
Status : **Answered**
Chosen Option : **2**

Q.85 Modification like winged seeds, pappus calyx, hooks of seedcoat, sticky substances on seeds are meant for seed...

Ans
✗ 1. dormancy
✓ 2. dispersal
✗ 3. viability
✗ 4. protection

Question Type : **MCQ**
Question ID : **292995402**
Option 1 ID : **2929951606**
Option 2 ID : **2929951608**
Option 3 ID : **2929951607**
Option 4 ID : **2929951605**
Status : **Answered**
Chosen Option : **1**

Q.86 The number of codons in genetic dictionary is 64 as ..

Ans
✓ 1. genetic code is triplet in nature
✗ 2. the number of t-RNA is 64
✗ 3. there are 64 amino acids to be coded
✗ 4. there are three nonsense codons

Question Type : **MCQ**
Question ID : **292995405**
Option 1 ID : **2929951618**

ZOLLEGE.in

Option 2 ID : **2929951619**
Option 3 ID : **2929951617**
Option 4 ID : **2929951620**
Status : **Answered**
Chosen Option : **1**

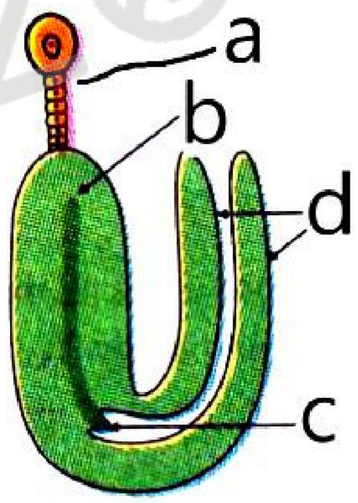
Q.8 In kidney, about 7 to 8 collecting ducts of nephron join to form ....
7

Ans
✗ 1. Ureter
✗ 2. Major calyx
✗ 3. Duct of Bertini
✓ 4. Duct of Bellini

Question Type : **MCQ**
Question ID : **292995493**
Option 1 ID : **2929951971**
Option 2 ID : **2929951969**
Option 3 ID : **2929951972**
Option 4 ID : **2929951970**
Status : **Answered**
Chosen Option : **1**

Q.8
8

Choose the correct set of labellings for the given figure



Ans
✗ 1.
a-Suspensor, b-Plumule, c-Radicle, d-Cotyledons

✗ 2.
a-Radicle, b-Suspensor, c-Plumule, d-Cotyledons

✗ 3.
a-Radicle, b-Plumule, c-Suspensor, d-Cotyledons

✓ 4.
a-Suspensor, b-Radicle, C-Plumule, d-Cotyledons

Question Type : **MCQ**
Question ID : **292995434**
Option 1 ID : **2929951734**

ZOLLEGE.in

Option 2 ID : **2929951735**
Option 3 ID : **2929951733**
Option 4 ID : **2929951736**
Status : **Answered**
Chosen Option : **1**

Q.8 Which one of the following diseases is related to Adrenal gland ?
9

Ans
✗ 1. Acromegaly
✗ 2. Goitre
✗ 3. Myxoedema
✓ 4. Cushing's disease

Question Type : **MCQ**
Question ID : **292995456**
Option 1 ID : **2929951822**
Option 2 ID : **2929951824**
Option 3 ID : **2929951821**
Option 4 ID : **2929951823**
Status : **Answered**
Chosen Option : **1**

Q.9 In the symplast pathway water travels from cell to cell through....
0

Ans
✗ 1. Casperian strips
✓ 2. Plasmodesmata
✗ 3. Inter cellular spaces
✗ 4. Cellulosic cell wall

Question Type : **MCQ**
Question ID : **292995420**
Option 1 ID : **2929951678**
Option 2 ID : **2929951677**
Option 3 ID : **2929951679**
Option 4 ID : **2929951680**
Status : **Answered**
Chosen Option : **2**

Q.9 In rDNA technology the recombinant DNA is also called
1

Ans
✗ 1. Cosmid
✗ 2. Plasmid
✓ 3. Chimeric DNA
✗ 4. Phage DNA

Question Type : **MCQ**
Question ID : **292995421**
Option 1 ID : **2929951681**
Option 2 ID : **2929951682**
Option 3 ID : **2929951683**
Option 4 ID : **2929951684**
Status : **Answered**
Chosen Option : **2**

Z@LLEGE.in

Q.9 The correct sequence of cytochromes as per their involvment in ETS of respiration is...
2

Ans
✗ 1.
$Cyto.a \rightarrow Cyto.b \rightarrow Cyto.c_1 \rightarrow Cyto.c \rightarrow Cyto.a_3$

✗ 2.
$Cyto.a_3 \rightarrow Cyto.a \rightarrow Cyto.b \rightarrow Cyto.c_1 \rightarrow Cyto.c$

✓ 3.
$Cyto.b \rightarrow Cyto.c_1 \rightarrow Cyto.c \rightarrow Cyto.a \rightarrow Cyto.a_3$

✗ 4.
$Cyto.a \rightarrow Cyto.c_1 \rightarrow Cyto.b \rightarrow Cyto.c \rightarrow Cyto.a_3$

Question Type : **MCQ**
Question ID : **292995433**
Option 1 ID : **2929951731**
Option 2 ID : **2929951732**
Option 3 ID : **2929951729**
Option 4 ID : **2929951730**
Status : **Answered**
Chosen Option : **4**

Q.9 Which animal accompanies shark without getting attached to obtain food?
3

Ans
✗ 1. Flea
✗ 2. Sucker fish
✓ 3. Pilot fish
✗ 4. Sea Anemone

Question Type : **MCQ**
Question ID : **292995468**
Option 1 ID : **2929951869**
Option 2 ID : **2929951872**
Option 3 ID : **2929951870**
Option 4 ID : **2929951871**
Status : **Answered**
Chosen Option : **1**

Q.9 Which of the follwing is NOT a process of Hershey- Chase experiment ?
4

Ans
✗ 1. Blending
✗ 2. Infection
✓ 3. Test tube assay
✗ 4. Centrifugation

Question Type : **MCQ**
Question ID : **292995432**
Option 1 ID : **2929951727**
Option 2 ID : **2929951726**
Option 3 ID : **2929951728**
Option 4 ID : **2929951725**
Status : **Answered**

ZOLLEGE.in

Chosen Option : 3

Q.9 5 Modern man belongs to group

Ans
- ✗ 1. Pongidae
- ✓ 2. Hominidae
- ✗ 3. Prossimi
- ✗ 4. Hyalobatidae

Question Type : MCQ
Question ID : 292995478
Option 1 ID : 2929951909
Option 2 ID : 2929951911
Option 3 ID : 2929951912
Option 4 ID : 2929951910
Status : Answered
Chosen Option : 2

Q.9 6 Endoplasmic reticulum is a continuous system connecting at one end to nuclear membrane & the other end with ...

Ans
- ✓ 1. Plasma membrane
- ✗ 2. Vacuole
- ✗ 3. Golgi complex
- ✗ 4. Lysosome

Question Type : MCQ
Question ID : 292995498
Option 1 ID : 2929951989
Option 2 ID : 2929951992
Option 3 ID : 2929951990
Option 4 ID : 2929951991
Status : Answered
Chosen Option : 3

Q.9 7 Darwin's finches on Galapagos island is the example of ...

Ans
- ✗ 1. Genetic drift
- ✗ 2. Industrial melanism
- ✗ 3. Reproductive isolation
- ✓ 4. Geographical isolation

Question Type : MCQ
Question ID : 292995457
Option 1 ID : 2929951826
Option 2 ID : 2929951827
Option 3 ID : 2929951828
Option 4 ID : 2929951825
Status : Answered
Chosen Option : 1

Q.9 8 Crawler is a stage in life cycle of ...

Ans
- ✓ 1. Lac insect

Z@LLEGE.in

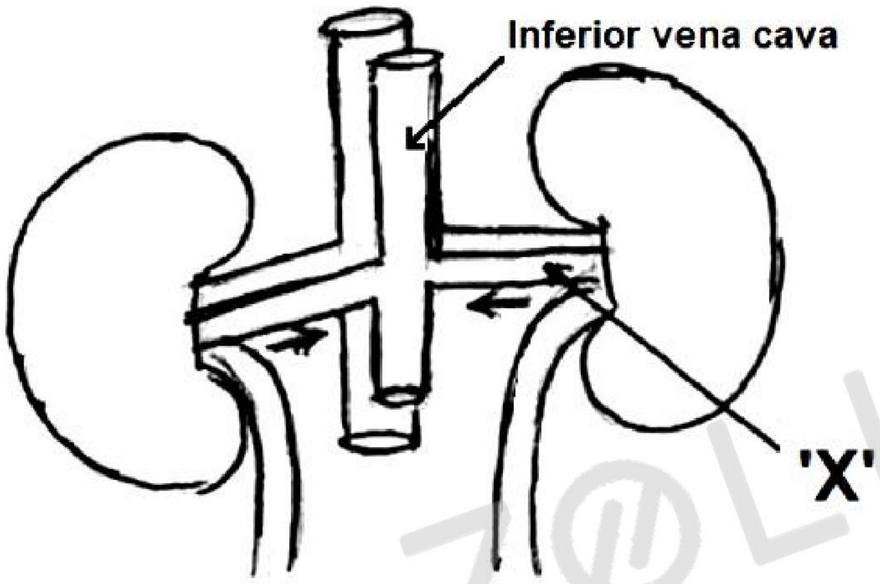
✗ 2. Silk moth

✗ 3. Honey bee

✗ 4. Fish

Question Type : **MCQ**
Question ID : **292995476**
Option 1 ID : **2929951903**
Option 2 ID : **2929951901**
Option 3 ID : **2929951902**
Option 4 ID : **2929951904**
Status : **Answered**
Chosen Option : **1**

Q.99 In the given diagram 'X' is described as_____.



Ans

✗ 1. Ureter-conducting the urine.

✓ 2. Renal vein-conducting blood with minimum urea.

✗ 3. Renal artery conducting blood with no urea.

✗ 4. Renal artery -conducting blood with more urea.

Question Type : **MCQ**
Question ID : **292995463**
Option 1 ID : **2929951852**
Option 2 ID : **2929951850**
Option 3 ID : **2929951849**
Option 4 ID : **2929951851**
Status : **Answered**
Chosen Option : **3**

Q.100 Which of the following set of tissues is exclusively mesodermal in origin ?

Ans

✓ 1. Connective and Muscular

✗ 2. Nervous and Connective

✗ 3. Connective and Epithelial

✗ 4. Epithelial and Nervous

Question Type : **MCQ**
Question ID : **292995451**
Option 1 ID : **2929951804**

ZOLLEGE.in

Option 2 ID : **2929951802**
Option 3 ID : **2929951803**
Option 4 ID : **2929951801**
Status : **Answered**
Chosen Option : **1**

Z@LLEGE.in

ZOLLEGE.in