

All India Institute of Speech and Hearing

Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

Question Paper Name :	BASLP PCB 13th September 2021 Shift 2
Subject Name :	BASLP - PCB
Creation Date :	2021-09-13 17:11:52
Duration :	120
Total Marks :	120
Display Marks:	No
Calculator :	None
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required? :	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console? (SA type of questions will be always auto saved) :	Yes

BASLP - PCB

Group Number : 1

Group Id : 21585714

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	120
Is this Group for Examiner? :	No

PHYSICS

Section Id :	21585740
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	40
Number of Questions to be attempted :	40
Section Marks :	40
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	21585740
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 2158571421 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A particle A with a charge of 2.0×10^{-6} C and a mass of 800 g is placed at the bottom of a smooth inclined plane of length 1 m and an inclination of 30° . Where another particle B, with the same charge and mass, should be placed (approximately) on the inclined plane so that it may remain in equilibrium?

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

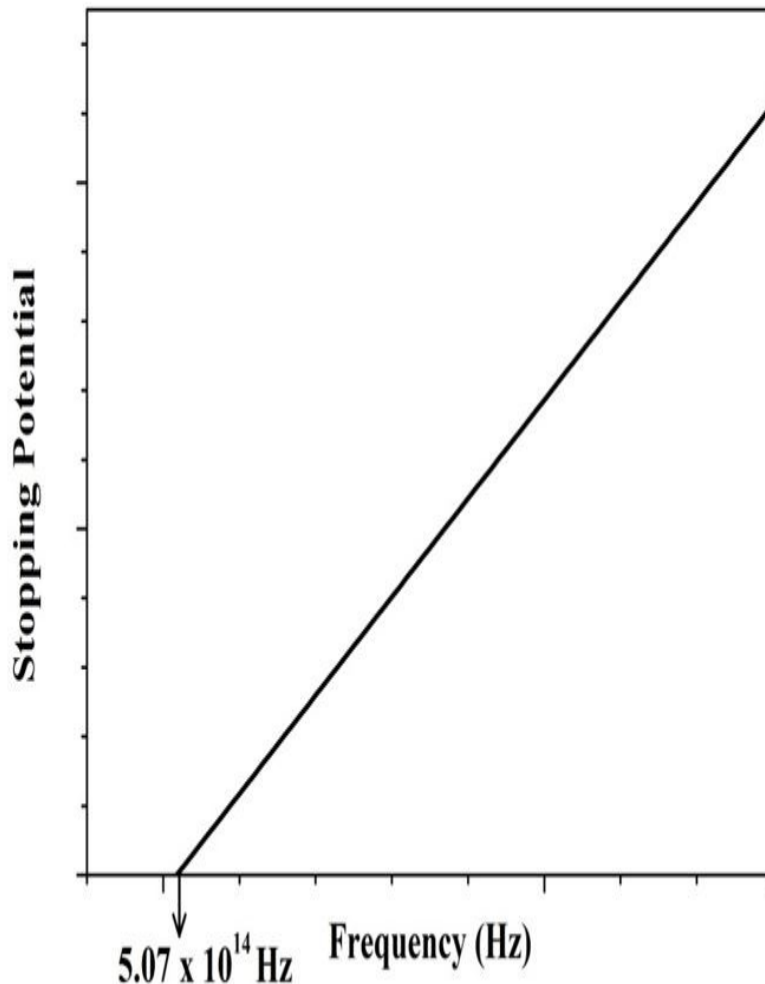
Options :

1. ✘ 9 cm from the top
2. ✘ 0.3 cm from the top
3. ✔ 9 cm from the bottom
4. ✘ 0.3 cm from the bottom

Question Number : 2 Question Id : 2158571422 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The variation of the stopping potential of Cesium with the frequency is shown below. Find the work function of cesium.



Options :

1. ✘ 2.1 J
2. ✘ 3.35 J
3. ✘ 3.35 eV
4. ✔ 2.1 eV

Question Number : 3 Question Id : 2158571423 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Twelve charges each of q C are placed at equal distances on the circle of a radius of R (at the positions of the numbers of a clock). Which of the following is correct if all the charges are doubled?

Options :

- ✘ The electric potential at the centre becomes 2 times the original
- ✔ The electric potential at the centre is just doubled
- ✘ The electric field at the centre is doubled
- ✘ Both the electric field and the electric potential at the centre are doubled

Question Number : 4 Question Id : 2158571424 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A storage capacitor has a capacitance of 55 fF ($1 \text{ fF} = 10^{-15} \text{ F}$). If the capacitor is charged to 1.6 V , how many excess electrons are on its negative plate?

Options :

- ✔ 5.5×10^5
- ✘ 8.8×10^6
- ✘ 5.5×10^6
- ✘ 8.8×10^5

Question Number : 5 Question Id : 2158571425 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

Correct Marks : 1 Wrong Marks : 0

Which of the following can be taken as a source of coherent electromagnetic waves?

Options :

1. ✘ two lasers of same frequency
2. ✘ two sodium vapour lamps
3. ✘ a pinhole in a cover over a mono chromatic light source and its reflection in a mirror
4. ✔ two pinholes in a cover over a monochromatic light source

Question Number : 6 Question Id : 2158571426 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The magnetic field inside a uniform long solenoid, carrying a current of 5.0 A is $\pi \times 10^{-2}$ T. Find the mass of the total wire that to be used for constructing the solenoid?

(length of the solenoid = $\frac{1}{\pi}$ m, radius of the cross section of the solenoid = 5 cm, the

radius of the wire used = $\frac{10^{-3}}{\sqrt{\pi}}$ m, the density of the material of the wire used = 10^3

kg/m³)

Options :

1. ✘ 5 kg
2. ✔ 0.5 kg
3. ✘ 1 kg
4. ✘ 0.1 kg

Question Number : 7 Question Id : 2158571427 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the energy difference between n=2 and n=5 states of a Hydrogen atom?

Options :

1. ✓ 2.86 eV
2. ✗ 4.08 eV
3. ✗ 13.60 eV
4. ✗ 4.08 J

Question Number : 8 Question Id : 2158571428 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the ratio (approximately) of the longest wavelength to the shortest wavelength present in the Paschen series of spectral lines?

Options :

1. ✗ 4:3
2. ✗ 9:5
3. ✗ 25:9
4. ✓ 16:7

Question Number : 9 Question Id : 2158571429 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A magnet is moved towards a conducting wall in two ways- (i) slowly and (ii) quickly. Select the correct statement.

Options :

1. ✗ The induced emf and induced charge are same in both the cases
2. ✗ The induced emf is more in (i) and induced charges are same in both the cases
3. ✓ The induced emf is more in (ii) and induced charges are same in both the cases
4. ✗ The induced emf and induced charge are more in (ii)

Question Number : 10 Question Id : 2158571430 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The speed of electromagnetic waves in vacuum is,

Options :

1. ✓ $3 \times 10^8 \text{ ms}^{-1}$
2. ✗ $3 \times 10^8 \text{ kms}^{-1}$
3. ✗ $3 \times 10^8 \text{ cms}^{-1}$
4. ✗ $3 \times 10^{10} \text{ ms}^{-1}$

Question Number : 11 Question Id : 2158571431 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A electric field of a plane electromagnetic wave propagating in the x- direction is represented by the equation, $E = (30 \text{ V/m}) \sin \left[\frac{2\pi}{5.0 \text{ mm}} (ct - x) \right]$. Select the correct

statement about the wavelength and the electric field amplitude of this wave.

Options :

1. ✗ The electric field is in the x direction and has a maximum magnitude of 30V/m, the wavelength is 5mm
2. ✗ The electric field is in the y direction and has a maximum magnitude of 30 V/m, the wavelength is 5m
3. ✗ The electric field is in the x direction and has a maximum magnitude of 30 V/m, the wavelength is 5m
4. ✓ The electric field is in the y direction and has a maximum magnitude of 30 V/m, the wavelength is 5mm

Question Number : 12 Question Id : 2158571432 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

Correct Marks : 1 Wrong Marks : 0

The tension developed in a string is an example of

Options :

1. ✘ gravitational force
2. ✔ electro-magnetic force
3. ✘ strong nuclear force
4. ✘ weak nuclear force

Question Number : 13 Question Id : 2158571433 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A boy is throwing balls into the air, with the same force, throwing one whenever the previous one is at its highest point. How high do the balls rise if he throws one ball in every 2 seconds? (take “g” = 10 ms^{-2})

Options :

1. ✔ 20 m
2. ✘ 10 m
3. ✘ 40 m
4. ✘ 25 m

Question Number : 14 Question Id : 2158571434 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A projectile of mass m is thrown with a speed v making an angle of 45 degrees with the horizontal. Neglecting air resistance, which of the following is correct about the change of momentum of the projectile from its point of departure to its point of arrival at the ground?

Options :

The change of momentum along the vertical and horizontal directions are

1. ✘ zero

The change of momentum along the vertical direction is zero whereas the

2. ✖ change of momentum along the horizontal direction is $\sqrt{2} mv$

The change of momentum along the horizontal and vertical direction are

3. ✖ equal and is $\sqrt{2} mv$

The change of momentum along the horizontal direction is zero whereas the change of momentum along the vertical direction is $\sqrt{2} mv$

4. ✔

Question Number : 15 Question Id : 2158571435 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The equation of a wave travelling on a string stretched along the X- axis is given

by $y = Ae^{-\left(\frac{x}{a} + \frac{t}{T}\right)}$. Where is the maximum of the pulse located at $t=2T$?

Options :

1. ✖ $x = -A$

2. ✖ $x = -2A$

3. ✖ $x = -a$

4. ✔ $x = -2a$

Question Number : 16 Question Id : 2158571436 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A lady wearing ear- ring which has a 3.0 cm long light suspension wire. The lady sits on a merry- go- round moving at 4 ms^{-1} in a circle of radius 2 m. Find the time period of small oscillation of the ear- ring.

Options :

1. ✓ 0.30 s
2. ✗ 0.85 s
3. ✗ 0.15 s
4. ✗ 2 s

Question Number : 17 Question Id : 2158571437 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When an ideal diatomic gas is heated at constant pressure, the fraction of the heat energy supplied which increases the internal energy of the gas is

Options :

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

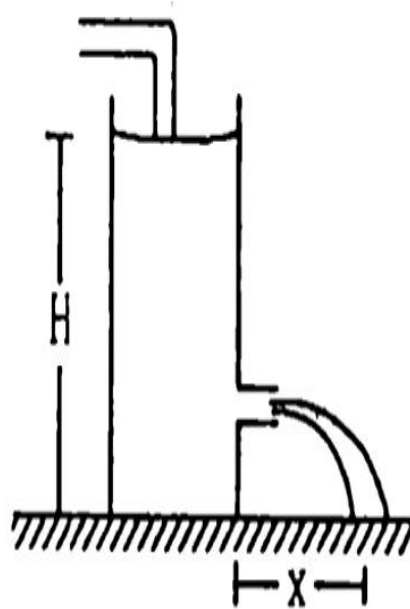
Question Number : 18 Question Id : 2158571438 Question Type : MCQ Option Shuffling : No Is

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Water level is maintained in a cylindrical vessel, resting on a horizontal surface, up to a fixed height H . At what height a hole should be made on the vessel so that the water stream coming out of the hole strikes the horizontal plane at the greatest distance from the vessel.



Options :

1. ✘ $\frac{2H}{3}$

2. ✘ $\frac{3H}{4}$

3. ✔ $\frac{H}{2}$

4. ✘ $\frac{H}{3}$

Question Number : 19 Question Id : 2158571439 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A step-up transformer operates on a 200V line. The ratio of primary to secondary turns is 1:10. Then output voltage in the secondary coil is

Options :

1. ✘ 20 V
2. ✘ 200 V
3. ✘ 1000 V
4. ✔ 2000 V

Question Number : 20 Question Id : 2158571440 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A stone is thrown upward with a speed u from the top of a tower. It reaches the ground with a speed of $3u$. The height of the tower is

Options :

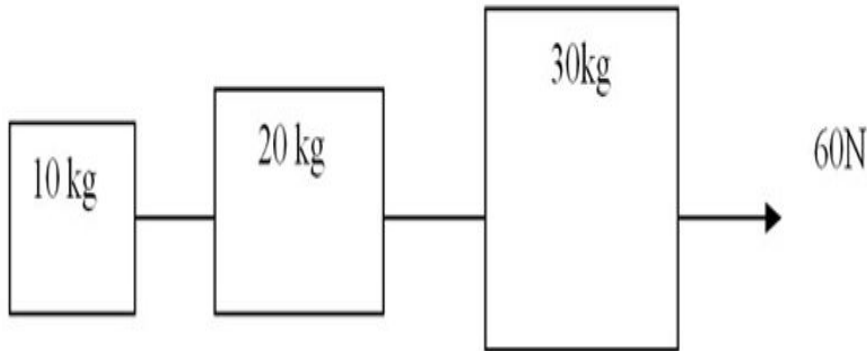
1. ✘ $\frac{3u^2}{g}$
2. ✔ $\frac{4u^2}{g}$
3. ✘ $\frac{6u^2}{g}$
4. ✘ $\frac{9u^2}{g}$

Question Number : 21 Question Id : 2158571441 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Three blocks of masses 10kg, 20kg and 30kg are connected by strings on a smooth horizontal table as shown and pulled to the right with a force of 60N. The acceleration of the system is



Options :

1. ✘ 6m/s^2

2. ✘ 3m/s^2

3. ✔ 1m/s^2

4. ✘ 2m/s^2

Question Number : 22 Question Id : 2158571442 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For the molecules of a gas in random motion,

Options :

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

1. ✘ $v_x = v_y = v_z$

2. ✘ $v_x^2 = v_y^2 = v_z^2$

3. ✘ $\sqrt{v_x} = \sqrt{v_y} = \sqrt{v_z}$

4. ✔ $\overline{v_x^2} = \overline{v_y^2} = \overline{v_z^2}$

Question Number : 23 Question Id : 2158571443 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A cylinder of capacity 44.8 litre contains Helium gas at STP. What is the amount of heat required to increase the temperature of the gas in the cylinder by 10 degree C ?(R = 8.31J/mol/K)

Options :

1. ✘ 581 J

2. ✘ 831 J

3. ✘ 415.5 J

4. ✔ 249 J

Question Number : 24 Question Id : 2158571444 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A uniform force $5\mathbf{i} + 2\mathbf{j}$ N acting on a mass of 1 kg displaces it from $\mathbf{i} + \mathbf{j} + \mathbf{k}$ to $2\mathbf{i} - \mathbf{j} + 3\mathbf{k}$ m. The work done by the force on the body is

Options :

1. ✘ 6 J

2. ✘ 15 J

3. ✖ 7J

4. ✔ 1J

Question Number : 25 Question Id : 2158571445 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A satellite is moving with a kinetic energy E in a circular orbit around earth. The minimum additional kinetic energy required for it to escape to outer space is

Options :

1. ✖ $2E$

2. ✔ E

3. ✖ $\sqrt{2} E$

4. ✖ $\frac{E}{\sqrt{2}}$

Question Number : 26 Question Id : 2158571446 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Internal energy of an ideal gas depends

Options :

1. ✖ only on volume

2. ✔ only on temperature

3. ✖ both volume and temperature

4. ✖ does not depend on both

Question Number : 27 Question Id : 2158571447 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A transverse harmonic wave on a string is given by $y(x,t) = 3.0 \left(\sin 36t + 0.018x + \frac{\pi}{4} \right)$ where x and y are in cm and t in s. The distance between two consecutive crests in the wave is

Options :

1. ✓ 3.49 m
2. ✗ 3.0 m
3. ✗ 1.8 m
4. ✗ 36 m

Question Number : 28 Question Id : 2158571448 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The magnetic flux linked with a circuit is $\Phi = 5t^2 + 3t + 5$ Wb. The magnitude of induced emf at $t = 3$ s is

Options :

1. ✓ 33V
2. ✗ 30V
3. ✗ 38V
4. ✗ 13V

Question Number : 29 Question Id : 2158571449 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The instantaneous values of alternating current and voltage in a circuit are given by $i = \frac{1}{\sqrt{2}} \sin(100\pi t)$ A and $v = \frac{1}{\sqrt{2}} \sin(100\pi t + \pi/3)$ V. The average power consumed by the circuit is

Options :

1. ✗ $\frac{1}{4}$ W

2. ✗ $\frac{\sqrt{3}}{4}$ W

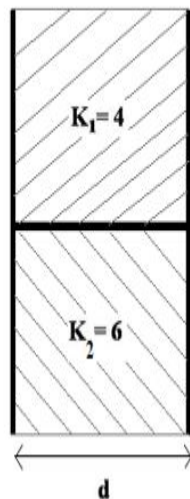
3. ✘ $\frac{1}{2} W$

4. ✔ $\frac{1}{8} W$

Question Number : 30 Question Id : 2158571450 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A capacitor has a capacitance $1 \mu\text{F}$. It is divided into two equal halves, filled with two dielectrics of dielectric constants 4 and 6. The new capacitance is



Options :

1. ✘ $10 \mu\text{F}$

2. ✔ $5 \mu\text{F}$

3. ✘ $4 \mu\text{F}$

4. ✘ $7 \mu\text{F}$

Question Number : 31 Question Id : 2158571451 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

N cells each of emf E volt and internal resistance r ohm are connected in series with an external resistance R. The current will increase 'N' times that of a single cell if

Options :

1. ✓ R is very large compared to r
2. ✗ R is very small compared to r
3. ✗ $R = r$
4. ✗ Irrespective of the magnitudes of R and r

Question Number : 32 Question Id : 2158571452 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In a semiconductor at room temperature

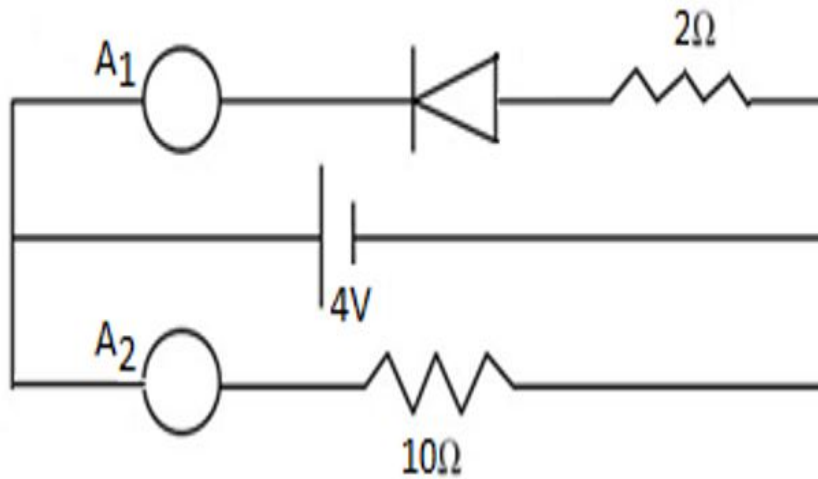
Options :

1. ✓ Valance band is partially empty and conduction band is partially filled
2. ✗ Valance band is completely filled and conduction band is partially filled
3. ✗ Valance band is completely filled
4. ✗ Conduction band is completely filled

Question Number : 33 Question Id : 2158571453 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The readings of the ammeters in the given circuit are



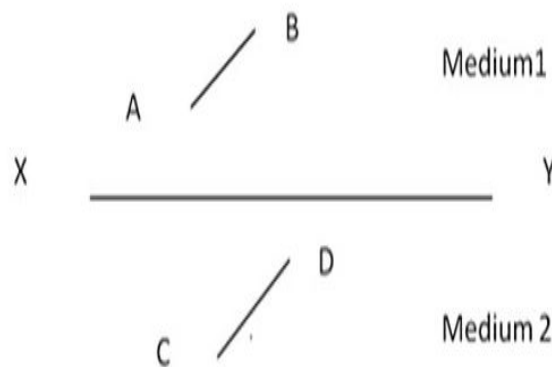
Options :

1. ✘ 0.5A, 0.33A
2. ✘ 0.5A, 0.4A
3. ✔ 0A, 0.4A
4. ✘ 0A, 0A

Question Number : 34 Question Id : 2158571454 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

XY separates two transparent media. AB represents wave front travelling through medium 1 incident on XY and CD represents wave front in medium 2 after refraction.



Which of the following statements is true? Light travels as

Options :

1. ✔ Parallel beam in each medium
2. ✘ Converging in 1 and diverging 2

3. ✘ Diverging in 1 and converging in 2

4. ✘ Converging in both

Question Number : 35 Question Id : 2158571455 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Kirchoff's voltage law is consequence of

Options :

1. ✘ Newtons third law

2. ✘ Newtons second law

3. ✘ Ohms law

4. ✔ Law of conservation of energy

Question Number : 36 Question Id : 2158571456 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The radiation used in physiotherapy is

Options :

1. ✘ UV

2. ✔ IR

3. ✘ X Ray

4. ✘ Microwave

Question Number : 37 Question Id : 2158571457 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Electromotive force represents

Options :

1. ✘ Force

2. ✘ Energy

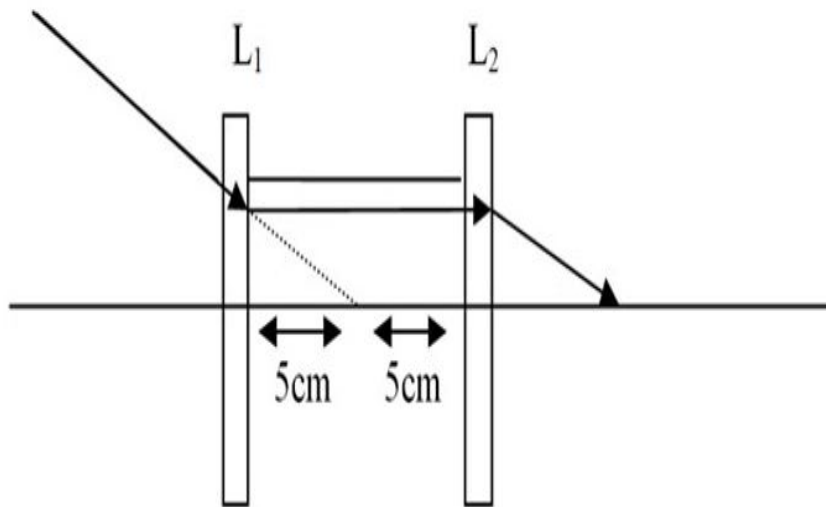
3. ✓ Energy per unit charge

4. ✗ Current

Question Number : 38 Question Id : 2158571458 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In the ray diagram, what will be the focal lengths of the first and second lens if the incident light ray passes without any deviation?



Options :

1. ✗ -5,10

2. ✗ +5,+10

3. ✓ -5, +5

4. ✗ +5,+5

Question Number : 39 Question Id : 2158571459 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In an AC circuit, the potential difference across the inductor and resistor joined in series are respectively 16V and 20 V. The total potential difference of the source is

Options :

1. ✗ 20 V

2. ✓ 25.6 V

3. ✖ 31.9 V

4. ✖ 53.5 V

Question Number : 40 Question Id : 2158571460 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Horizontal Component of Earth's magnetic field at a place is 3.2×10^{-5} T and angle of dip is 60° . The resultant intensity of Earth's magnetic field at that place is

Options :

1. ✖ 3.2×10^{-5} T

2. ✔ 6.4×10^{-5} T

3. ✖ 1.6×10^{-5} T

4. ✖ 12.8×10^{-5} T

CHEMISTRY

Section Id :	21585741
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	40
Number of Questions to be attempted :	40
Section Marks :	40
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1

Sub-Section Id :

21585741

Question Shuffling Allowed :

Yes

Question Number : 41 Question Id : 2158571461 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What will be the pH of a solution, made by dissolving 0.365g of hydrogen chloride in water, to make 1 litre solution:

Options :

1. ✘ 0.001

2. ✘ 0.01

3. ✘ 1

4. ✔ 2

Question Number : 42 Question Id : 2158571462 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Two water solutions are made in laboratory, one by dissolving 180.16 g/mol of fructose in 1000g of water and the other by dissolving 342.3g/mol of lactose in 1000g of water.

Options :

1. ✘ Fructose solution would have lower freezing point

2. ✘ Lactose would have lower freezing point

3. ✔ Both solutions would have same freezing points

4. ✘ The freezing point of lactose would be lowered twice as much as that of fructose

Question Number : 43 Question Id : 2158571463 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the ΔH° value for the decomposition of potassium chlorate, using the following informations?



(ΔH°_f Values: $\text{KClO}_3(\text{s}) = -358 \text{ J/mol}$, $\text{KCl}(\text{s}) = -410 \text{ J/mol}$, $\text{O}_2(\text{g}) = 0 \text{ Kcal/mol}$)

Options :

1. ✘ 52.0J
2. ✔ -52.0J
3. ✘ $\frac{3}{2}(768\text{J})$
4. ✘ $-\frac{3}{2}(768\text{J})$

Question Number : 44 Question Id : 2158571464 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In $\text{SF}_4 \Rightarrow \text{SF}_6$, the hybridisation changes from:

Options :

1. ✘ sp^2 to sp^3
2. ✘ sp^3 to $sp^3 d$
3. ✔ $sp^3 d$ to $sp^3 d^2$
4. ✘ $sp^3 d^2$ to $sp^3 d^3$

Question Number : 45 Question Id : 2158571465 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Element A has an outer electronic configuration of $4s^2$. Element B is directly placed below the element A in the periodic table. The nature of bond formed between A & B in their solid state will be:

Options :

1. ✘ Covalent
2. ✘ Ionic
3. ✘ Co-ordinate
4. ✔ Metallic

Question Number : 46 Question Id : 2158571466 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

At 300 K, 36 g of glucose present/litre of its solution has an osmotic pressure of 4.98 bar. If the osmotic pressure of the solution is 1.52 bar at the same temperature, then the concentration of solution is:

Options :

1. ✔ 6.10×10^{-2} mol/L
2. ✘ 6.10×10^{-4} mol/L
3. ✘ 4.4×10^{-2} mol/L
4. ✘ 4.4×10^{-3} mol/L

Question Number : 47 Question Id : 2158571467 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

$\text{SO}_3 + \text{H}_2\text{O} \rightleftharpoons \text{X}$, In the reaction given above the basicity of X is:

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 48 Question Id : 2158571468 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following compounds is used for water softening?

Options :

1. ✖ $\text{Ca}_3(\text{PO}_4)_2$
2. ✖ Na_3PO_4
3. ✔ $\text{Na}_6\text{P}_6\text{O}_{18}$
4. ✖ Na_2HPO_4

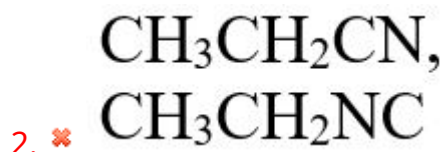
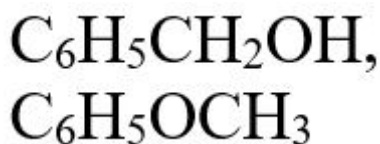
Question Number : 49 Question Id : 2158571469 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which among the following pairs does not represent functional isomerism?

Options :

1. ✖



Question Number : 50 Question Id : 2158571470 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Ethanal and Methanal are formed when _____ compound undergoes reductive ozonolysis

Options :

1. ✘ Ethylene
2. ✘ Propylene
3. ✘ Butylene
4. ✔ Propene

Question Number : 51 Question Id : 2158571471 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The number of KNO_3 formula units present in 100mL of 0.1M solution is:

Options :

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

1. ✘ 3.011×10^{21}

2. ✘ 3.011×10^{23}

3. ✔ 6.022×10^{21}

4. ✘ 6.022×10^{23}

Question Number : 52 Question Id : 2158571472 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

One Faraday of electricity will deposit one-gram atomic weight of metal from solution of

Options :

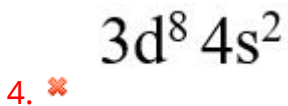
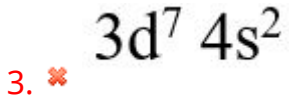
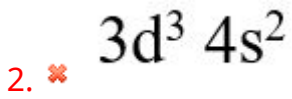
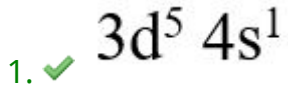


Question Number : 53 Question Id : 2158571473 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An element which has f -configuration exhibits a greater number of oxidation states

Options :



Question Number : 54 Question Id : 2158571474 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The number of binding sites present in EDTA are

Options :

1. ✗ 2 oxygen and 2 nitrogen

2. ✗ 2 oxygen and 4 nitrogen

3. ✓ 4 oxygen and 2 nitrogen

4. ✗ 4 oxygen and 4 nitrogen

Question Number : 55 Question Id : 2158571475 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The rate constant for a first order reaction is 60 s^{-1} . How much time will it take to reduce the initial concentration of the reactant to its $1/16^{\text{th}}$ value? ($\log 16 = 1.2041$)

Options :

1. ✓ $4.6 \times 10^{-2} \text{ s}$

$$4.6 \times 10^{-3} \text{ s}$$

2. ✘

$$4.6 \times 10^{-4} \text{ s}$$

3. ✘

$$4.6 \times 10^{-5} \text{ s}$$

4. ✘

Question Number : 56 Question Id : 2158571476 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Picric acid is

Options :

1. ✘ Mineral acid
2. ✘ Aliphatic carboxylic acid
3. ✘ Aromatic carboxylic acid
4. ✔ Phenolic compound

Question Number : 57 Question Id : 2158571477 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A new C-C bond is formed in which of the following reaction?

Options :

1. ✘ Swartz reaction
2. ✔ Aldol condensation reaction
3. ✘ Cannizaro reaction
4. ✘ Sandmeyers reaction

Question Number : 58 Question Id : 2158571478 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The product formed when isopropyl alcohol on heating in presence of Cu catalyst at 573K is

Options :

1. ✘ Propene
2. ✘ Propyne
3. ✘ Propanal
4. ✔ Propanone

Question Number : 59 Question Id : 2158571479 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following reagents required to bring about the conversion of Toluene to Benzaldehyde are

Options :

1. ✔ $\text{CrO}_2\text{Cl}_2/\text{CS}_2,$
 H_3O^+
2. ✘ $\text{HBr, aq. NaOH } \Delta$
3. ✘ $\text{Br}_2/\text{sunlight, } 383\text{K}$
 aq. KOH
4. ✘ $\text{Br}_2/\text{alcoholic}$
 NaOH

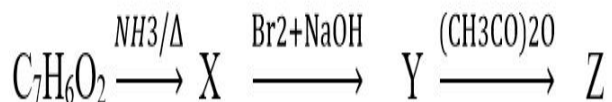
Question Number : 60 Question Id : 2158571480 Question Type : MCQ Option Shuffling : No Is

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An aromatic compound with molecular formula $C_7H_6O_2$ undergoes series of reactions as given below. Identify the product Z in the reaction:



Options :

1. ✓ Amide
2. ✗ Amine
3. ✗ Acid
4. ✗ Acid anhydride

Question Number : 61 Question Id : 2158571481 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Benzene on nitration with nitrating mixture gives nitrobenzene. In this reaction, nitric acid acts as

Options :

1. ✗ Acid
2. ✓ Base
3. ✗ Catalyst
4. ✗ Reducing agent

Question Number : 62 Question Id : 2158571482 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When C_2H_5I is heated with Potassium phenoxide, the compound formed is:

Options :

1. ✗ Anisole

- ✘ Phenol
- ✘ Benzene
- ✔ phenetole

Question Number : 63 Question Id : 2158571483 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The oxidation state of iron in brown ring complex is

Options :

1. ✔ +1

2. ✘ +3

3. ✘ +2

4. ✘ 0

Question Number : 64 Question Id : 2158571484 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How many moles of iodine molecule(I_2) are liberated when 1 mol of potassium dichromate react with potassium iodide?

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 65 Question Id : 2158571485 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following element can form more compounds with fluorine and oxygen?

Options :

1. ✘ He
2. ✘ Ne
3. ✔ Xe
4. ✘ Ar

Question Number : 66 Question Id : 2158571486 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The shape of SF₄ molecule is

Options :

1. ✘ Linear
2. ✔ see-saw
3. ✘ triangular planar
4. ✘ pyramidal

Question Number : 67 Question Id : 2158571487 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

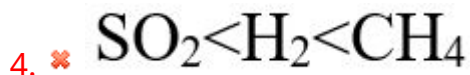
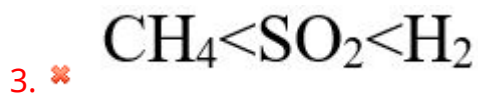
Correct Marks : 1 Wrong Marks : 0

The correct order of adsorption of the following gases on the same mass of charcoal at the same temperature and pressure is

Options :



1. ✘



Question Number : 68 Question Id : 2158571488 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is/are negative during adsorption?

a) ΔH (b) ΔS (c) ΔG

Options :

1. ✗ a only

2. ✗ c only

3. ✗ a and c

4. ✓ a, b and c

Question Number : 69 Question Id : 2158571489 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Reaction of Benzene with chloropropane in presence of anhy. $AlCl_3$ gives

Options :

1. ✗ Cumene

2. ✓ n-propyl benzene

3. ✗ toluene

4. ✖ ethyl benzene

Question Number : 70 Question Id : 2158571490 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The enthalpy of formation of NH_3 is -46 kJmol^{-1} . The enthalpy change for the reaction $2\text{NH}_3(\text{g}) \rightarrow \text{N}_2(\text{g}) + 3\text{H}_2(\text{g})$, is

Options :

1. ✖ +23kJ

2. ✔ +92kJ

3. ✖ +46kJ

4. ✖ +184kJ

Question Number : 71 Question Id : 2158571491 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is extensive?

Options :

1. ✔ heat capacity

2. ✖ viscosity

3. ✖ density

4. ✖ surface tension

Question Number : 72 Question Id : 2158571492 Question Type : MCQ Option Shuffling : No Is

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Arrange the following in the increasing order of acidic nature

1. Perchloric Acid, 2. Hypochlorous Acid, 3. Chloric Acid, 4. Chlorous Acid

Options :

1. ✘ 1 3 2 4

2. ✘ 1 4 2 3

3. ✔ 2 4 3 1

4. ✘ 4 1 2 3

Question Number : 73 Question Id : 2158571493 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following does not impart any color to the flame?

Options :

1. ✔ Mg

2. ✘ Ca

3. ✘ Li

4. ✘ Ba

Question Number : 74 Question Id : 2158571494 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The product formed when ethyl tert.butyl ether reacts with hydrogen Iodide?

Options :

Ethyl Iodide and
tert.butyl alcohol

1. ✘

2. ✔

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

Tert.butyl Iodide and ethanol

3. ✖ Sec butyl Iodide and ethanol

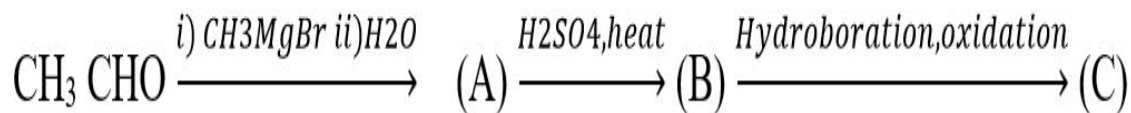
Ethane and tert.butane

4. ✖

Question Number : 75 Question Id : 2158571495 Question Type : MCQ Option Shuffling : No Is
Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Compounds A and C in the following reaction are:



Options :

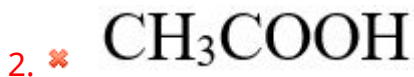
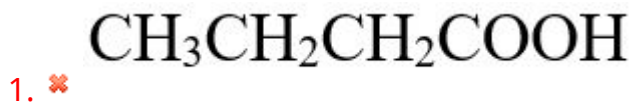
1. ✖ Identical
2. ✔ Positional isomers
3. ✖ Functional isomers
4. ✖ Optical isomers

Question Number : 76 Question Id : 2158571496 Question Type : MCQ Option Shuffling : No Is
Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An organic compound 'A' on treatment with NH_3 gives 'B' which on heating gives 'C'. On treatment of 'C' with Br_2 in the presence of KOH produces ethanamine. The compound 'A' is

Options :



Question Number : 77 Question Id : 2158571497 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is not an example of Lyophilic colloids when it is mixed with suitable dispersion medium?

Options :

1. ✘ Gelatine

2. ✔ Metal Sulphides

3. ✘ Starch

4. ✘ Gum

Question Number : 78 Question Id : 2158571498 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For the electron of oxygen atom, which of the following statement is correct

Options :

1. ✘ An electron in the 3d orbital has the same energy as an electron in the 2p orbital

2. ✘ An electron in the 2s orbital has the same energy as an electron in the 2p orbital

3. ✔ The two electrons present in the 2s orbital have same spin quantum number(m) but opposite

sign

4. ✘ The two electrons present in the 3f orbital have same spin quantum number(m) but opposite sign

Question Number : 79 Question Id : 2158571499 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Arrange the following alkylhalides in decreasing order of rate of β - elimination reaction with alcoholic KOH

i) $\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}_2\text{Br}$ ii) $\text{CH}_3\text{CH}_2\text{Br}$ iii) $\text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$

Options :

1. ✘ i > ii > iii

2. ✘ iii > ii > i

3. ✘ ii > iii > i

4. ✔ i > iii > ii

Question Number : 80 Question Id : 2158571500 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the total number of orbitals associated with the Principal Quantum number $n = 3$?

Options :

1. ✘ 3

2. ✘ 6

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

3. ✓ 9

4. ✗ 12

BIOLOGY

Section Id :	21585742
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	40
Number of Questions to be attempted :	40
Section Marks :	40
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	21585742
Question Shuffling Allowed :	Yes

Question Number : 81 Question Id : 2158571501 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In sugarcane, $^{14}\text{CO}_2$ is fixed into malic acid with the help of the enzyme

Options :

1. ✗ RuBP carboxylase
2. ✗ Ribulose phosphate kinase
3. ✓ PEP carboxylase
4. ✗ Fructose phosphate

Question Number : 82 Question Id : 2158571502 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Living plant cell capable to grow and develop as a whole plant in culture medium are due to the properties of cells _____.

Options :

1. ✓ Totipotency
2. ✗ Pleiotropy
3. ✗ Callus
4. ✗ Somatic

Question Number : 83 Question Id : 2158571503 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Among Bitter gourd, Mustard, Brinjal, Pumpkin, China-rose, Lupin, Cucumber, Sunhemp, Gram, Guava, Bean, Chilli, Plum, petunia, Tomato, Rose, Withania, Potato, Onion, Aloe and Tulip, how many plants have hypogynous flower?

Options :

1. ✗ Eight
2. ✗ Six
3. ✗ Ten
4. ✓ Fifteen

Question Number : 84 Question Id : 2158571504 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The number of chromosome are present in meiocyte cells of Allium Cepa?

Options :

1. ✓ 16
2. ✗ 18
3. ✗ 20

4. ✖ 23

Question Number : 85 Question Id : 2158571505 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The phenylketonuria disease in which “failure of brain to develop in infancy” is due to

Options :

1. ✔ Autosomal recessive disorder
2. ✖ Sex linked recessive disorder
3. ✖ Autosomal dominant disorder
4. ✖ Sex linked disorder

Question Number : 86 Question Id : 2158571506 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In human embryo, extra embryonic layers are formed by which type of cells?

Options :

1. ✖ Balstomeres
2. ✔ Trophoblast
3. ✖ Cleavage cells
4. ✖ Inner mass

Question Number : 87 Question Id : 2158571507 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In maize seed, endosperms are separated by proteinaceous layer from embryo with one cotyledons is called as _____.

Options :

1. ✖ Seed coat and fruit wall
2. ✖ Coleorhiza and radical

- ✘ Coleoptile and plumule
- ✔ Aleurone layer and scutellum

Question Number : 88 Question Id : 2158571508 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which type of tissue correctly matches with its location?

Options :

- ✘ Areolar tissue—tendons
- ✔ Smooth muscle—wall of intestine
- ✘ Transitional epithelium—Tip of nose
- ✘ Squamous epithelium—Lining of stomach

Question Number : 89 Question Id : 2158571509 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Due to addiction of alcohol in human causing disorder in liver is called

Options :

- ✘ Hepatic Portal
- ✘ heapatomas
- ✔ Cirrhosis
- ✘ Gall damage

Question Number : 90 Question Id : 2158571510 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An example of Oviparous Mammal is _____.

Options :

- ✘ Delphinus
- ✘ Camelus

3. ✘ Macaca

4. ✔ Ornithorhynchus

Question Number : 91 Question Id : 2158571511 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

After ovulation the ruptured follicle turn into endocrine gland and releases _____.

Options :

1. ✘ Estrogen only

2. ✘ hCG

3. ✘ Relaxin only

4. ✔ Progesterone

Question Number : 92 Question Id : 2158571512 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Purkinje Fibers are found in _____.

Options :

1. ✘ Cerebral cortex

2. ✘ Cerebellar cortex

3. ✔ Mammalian heart

4. ✘ Semicircular canal

Question Number : 93 Question Id : 2158571513 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The enzyme not used in separating DNA from bacteria is _____.

Options :

1. ✘ Ribonuclease

2. ✔ Lysozyme

3. ✘ Deoxy ribonuclease

4. ✘ Protease

Question Number : 94 Question Id : 2158571514 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Nissle's granules are present in _____.

Options :

1. ✔ Nerve cells

2. ✘ Schwann cells

3. ✘ Nodes of Ranvier

4. ✘ Mitochondria

Question Number : 95 Question Id : 2158571515 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In eukaryotic cell RNA polymerase III catalysis the synthesis of _____.

Options :

1. ✘ m-RNA

2. ✘ r-RNA

3. ✘ hn-RNA

4. ✔ t-RNA

Question Number : 96 Question Id : 2158571516 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which protein provides strength to loose connective tissue?

Options :

1. ✔ Collagen

2. ✘ Elastin

3. ✘ Albumin

4. ✘ Keratin

Question Number : 97 Question Id : 2158571517 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following triplet code is responsible for Sickle cell anaemia?

Options :

1. ✘ GAG

2. ✘ AAG

3. ✔ GUG

4. ✘ GAA

Question Number : 98 Question Id : 2158571518 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In mitochondria, protons are accumulated in the _____.

Options :

1. ✘ matrix

2. ✘ inner membrane

3. ✘ outer membrane

4. ✔ inter membrane space

Question Number : 99 Question Id : 2158571519 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The competitive inhibitor of succinic dehydrogenase is _____.

Options :

1. ✘ Succinate

2. ✘ Malate

3. ✓ Malonate

4. ✗ Oxaloacetate

Question Number : 100 Question Id : 2158571520 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Mention the direction in which discontinuous synthesis of DNA occurs?

Options :

1. ✗ 3'-5'

2. ✓ 5'-3'

3. ✗ 5'-5'

4. ✗ 3'-3'

Question Number : 101 Question Id : 2158571521 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The hormone that maintains the functions of Leydig cells is _____.

Options :

1. ✗ GnRh

2. ✗ FSH

3. ✗ Testosterone

4. ✓ LH

Question Number : 102 Question Id : 2158571522 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The part that nourishes the developing pollen grains in microsporangium of Angiosperms is _____.

Options :

1. ✘ Epidermis
2. ✔ Tapetum
3. ✘ Hypodermis
4. ✘ Middle layer

Question Number : 103 Question Id : 2158571523 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In which of the following process, cell divisions are not involved ?

Options :

1. ✘ Spermato-genesis
2. ✘ Oogenesis
3. ✘ Embryo-genesis
4. ✔ Spermio-genesis

Question Number : 104 Question Id : 2158571524 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The part of the Angiosperm which represent the female gametophyte is _____.

Options :

1. ✔ Embryo sac
2. ✘ Embryo
3. ✘ Synergids
4. ✘ Endosperm

Question Number : 105 Question Id : 2158571525 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A GMO that prevents night blindness is _____.

Options :

1. ✘ Transgenic Tomato
2. ✔ Golden Rice
3. ✘ Transgenic Mouse
4. ✘ Bt.Brinjal

Question Number : 106 Question Id : 2158571526 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Animals of colder region generally have shorter limbs. This is called _____.

Options :

1. ✔ Allens rule
2. ✘ Johnsons Rule
3. ✘ Arbers rule
4. ✘ Niche rule

Question Number : 107 Question Id : 2158571527 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A multicarpellary apocarpous gynoecium is present in _____.

Options :

1. ✘ Hibiscus
2. ✔ Michelia
3. ✘ Solanum
4. ✘ Petunia

Question Number : 108 Question Id : 2158571528 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

<https://exams.freshersnow.com/category/entrance-exam-question-papers/>

Correct Marks : 1 Wrong Marks : 0

FAD that acts as electron acceptor is between _____.

Options :

1. ✓ Succinic acid and fumaric acid
2. ✗ fumaric acid and malic acid
3. ✗ malic acid and oxaloacetic acid
4. ✗ citric acid and isocitric acid

Question Number : 109 Question Id : 2158571529 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

With respect to the fungal sexual cycle, choose the correct sequence of events.

Options :

1. ✗ Karyogamy ,
Plasmogamy,
Meiosis

2. ✓ Plasmogamy,
karyogamy,
Meiosis

3. ✗ Meiosis,
Plasmogamy,
Karyogamy

4. ✗ Meiosis,
Karyogamy,
Plasmogamy

Question Number : 110 Question Id : 2158571530 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The product of which of these organisms has been commercialised as blood cholesterol lowering agent?

Options :

1. ✘ *Trichoderma polysporum*
2. ✘ *Saccharomyces cerevisiae*
3. ✘ *Aspergillus niger*
4. ✔ *Monascus purpureus*

Question Number : 111 Question Id : 2158571531 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Treatment of snakebite by antivenom is _____.

Options :

1. ✘ Artificial acquired active immunity
2. ✔ Artificial acquired passive immunity
3. ✘ Natural acquired passive immunity
4. ✘ Special natural immunity

Question Number : 112 Question Id : 2158571532 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is not a biofertilizer?

Options :

1. ✘ *Azotobacter*
2. ✔ *Bacillus thuringiensis*
3. ✘ *Azospirillum*

4. ✘ Azolla

Question Number : 113 Question Id : 2158571533 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The chitinous exoskeleton of arthropods is formed by the polymerisation of _____.

Options :

1. ✘ Lipoglycons
2. ✘ Keratin sulphate and chondrotine sulphate
3. ✘ D-glucosamine
4. ✔ N-acetyl glucosamine

Question Number : 114 Question Id : 2158571534 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following condition is called monosomic?

Options :

1. ✘ $2n+1$
2. ✘ $2n+2$
3. ✘ $n+1$
4. ✔ $2n-1$

Question Number : 115 Question Id : 2158571535 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A person who is on long hunger strike and is surviving only on water, will have _____.

Options :

1. ✘ less amino acids in urine
2. ✘ more glucose in his blood
3. ✔ less urea in his urine
4. ✘ more sodium in his urine

**Question Number : 116 Question Id : 2158571536 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 1 Wrong Marks : 0

Selaginella and Salvinia are considered to represent a significant step towards evolution of seed habit because _____.

Options :

1. ✘ female gametophyte is free and dispersed like seeds
2. ✘ female gametophyte lacks archegonia
3. ✘ megaspores possesses endosperm and embryo surrounded by seed coat
4. ✔ embryo develops in female gametophyte which is retained on parent sporophyte

**Question Number : 117 Question Id : 2158571537 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 1 Wrong Marks : 0

Which of the following depicts the correct pathway of sperms?

Options :

1. ✔ Rete testis—Efferent ductules—Epididymis—Vas deferens
2. ✘ Rete testis— Epididymis—Efferent ductules—Vas deferens
3. ✘ Rete testis— Vas deferens —Efferent ductules—Epididymis
4. ✘ Efferent ductules—Rete testis—Vas deferens —Epididymis

**Question Number : 118 Question Id : 2158571538 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 1 Wrong Marks : 0

The distance between the gene a, b, c, d in mapping units are $a-d = 3.5$: $b-c = 1$:
 $a-b = 6$: $c-d = 1.5$: $a-c = 5$. Find out the sequence of the genes

Options :

1. ✘ acdb
2. ✔ adcb
3. ✘ adbc
4. ✘ acbd

**Question Number : 119 Question Id : 2158571539 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 1 Wrong Marks : 0

Cry IAC protein obtained from *Bacillus thuringiensis* are effective against _____.

Options :

1. ✘ Nematodes
2. ✔ Boll worms
3. ✘ Mosquitoes
4. ✘ Flies

**Question Number : 120 Question Id : 2158571540 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 1 Wrong Marks : 0

The Primary CO_2 acceptor in Hatch-Slack Pathway

Options :

1. ✔ PEP
2. ✘ PGA
3. ✘ PGAL
4. ✘ RuBP