A: Glass corners turns smooth when heated below melting point
R: Viscosity of glass is decreases with temperature
Ans. A - True
B - False

How many mole of CH₃MgBr are required to convert ethoxyethanoate to 2-methyl propan-2-ol?
Ans. 2

Concentrated nitric acid + P₄O₁₀ gives an oxide which is
Ans. Acidic

The number of lone pair on the central atom of I₃⁻
Ans. 3

Aldol has which monomeric unit from the following
Ans. Acrylonitrile

Find second excitation energy of Li⁺² ion
Ans. +13.6

The Azimuthal quantum number of valence electron of Ga⁺¹
Ans. Zero

Green chemistry used in day to day life

A. Cleaning cloth with water
B. Using liquid H₂O₂ in drying cloths
C. Using tetrachloroethane in laundries
D. Using Chlorine in bleaching paper

Which of the following metal is purified by distillation process
Ans. Zinc
The hybridisation of xenon in XeOF$_4$ is Ans. sp$3d^2$

Different properties are seen in which pair Ans. B(OH)$_3$; Al(OH)$_3$

The vapour pressure of benzene and methylbenzene are 70 and 20 respectively. Find the mole fraction of benzene in vapour phase, if equimolar mixture was present Ans. $\frac{35}{45}$

s-Block element having formula of oxide MO$_2$, which is yellow and paramagnetic, is Ans. Potassium (K)

Find the current through 6 ohm? Ans. 10 amp

Deuteron and alpha particle having same K.E. in magnetic field ratio of radius of Deuteron and alpha ? Ans. $(\sqrt{2}):1$

Body = 800 kg; Banked at $30^\circ$; Moving at max speed; $\mu_s = 0.2$; $\cos 30^0 = 0.87$; Find the Normal Reaction ? Ans. 1600 g
If \( A \cdot B = A \times B \); Find \(|A - B|\)

\[
\text{A.} \quad \sqrt{A^2 + B^2 - \sqrt{2AB}} \\
\text{B.} \quad \sqrt{A^2 + B^2 + \sqrt{2AB}}
\]

Find \( i_2 \)?

- A. 5 mA
- B. 1 mA
- C. 15 mA
- D. 25 mA

A rod moving from 0 to 2b magnetic field 0 to b, 3 graphs given identify them. Electric flux, Power dissipated, emf?

Simultaneous Reaction, Half life 1400, 700. Find time \( t \) when it becomes \( n/3 \).  

\( \text{Ans.} \frac{1400}{3} \ln 3 \)

Tension \( T_1 \) to \( T_2 \), length \( l_1 \) to \( l_2 \). Find Original length.  

[MCQ]

A charge \( Q \) is divided into \( q \) and \( Q - q \). Find the relation between \( q \) and \( Q \) such that repulsion between them is maximum.

Bird is flying in northeast direction with \( v = 4rt^2 \) wind from north to south with 1 m/s. Find displacement of bird in 3 sec? \( \text{Ans.} \ 15 \text{ m} \)

A graph was given for weight vs distance, when object moves from earth to moon, \( g_{\text{earth}} = 10 \text{ m/s}^2 \), \( g_{\text{moon}} = 4 \text{ m/s}^2 \), mass = 10, Choose the correct graph?
A graph was given for weight vs distance, when object moves from earth to moon, \(g_{earth} = 10 \text{ m/s}^2\), \(g_{moon} = 4 \text{ m/s}^2\), mass = 10, Choose the correct graph?
5. The value of \( \lim_{x \to 0} \left(2 - \cos x \sqrt{\cos 2x}\right)^{1^2} \) is

Ans. 1

6. If the focal chord \( y = mx + c \) of parabola \( y^2 = -64x \) is also the tangent to the circle \((x+10)^2 + y^2 = 4\) then absolute value of \(4\sqrt{2} (m + c)\) is

Ans. 34