



Subject : **PHYSICS**

- A parallel plate capacitor consists of two plates each of area $5 \times 10^{-4} \text{ m}^2$. They are separated by a distance $1.5 \times 10^{-3} \text{ m}$ and filled with a dielectric of relative permittivity 6. Calculate the charge on the capacitor if it is connected to 100 volt DC supply.

(1) $3.2 \times 10^{-9} \text{ C}$ (2) $1.77 \times 10^{-9} \text{ C}$
(3) $5.5 \times 10^{-9} \text{ C}$ (4) $8.6 \times 10^{-9} \text{ C}$
- The magnetic field strength of a paramagnetic material is 10^4 A/m . At room temperature its susceptibility is 3.7×10^{-3} . Calculate the magnetization of the material.

(1) 37 A/m (2) 52 A/m (3) 41 A/m (4) 18 A/m
- Find the radius of ${}_{29}\text{Cu}^{64}$ nucleus in Fermi.

(1) 4.8 (2) 1.2 (3) 9.6 (4) 8.8

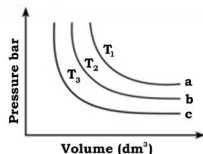
Subject : **CHEMISTRY**

- Among the following compounds which is not a Greenhouse gas?

(1) CH_4 (2) NO (3) CO_2 (4) None of these
- Photochemical smog occurs in warm, dry and hot climates. Among the following sets which one has a photochemical smog component?

(1) NO , O_3 , SO_2 , Unsaturated hydrocarbon.
(2) NO_2 , O_2 , SO_2 , Unsaturated hydrocarbon.
(3) NO , O_2 , Unsaturated hydrocarbon.
(4) NO , O_3 , Unsaturated hydrocarbon.
- Consider the graph which is given below. Curves a, b, and c are the variation of pressure at temperatures T_1 , T_2 , and T_3 . Arrange the temperature in correct order.

(1) $T_1 > T_2 > T_3$
(2) $T_1 < T_2 < T_3$
(3) $T_1 = T_2 = T_3$
(4) $T_1 > T_2 = T_3$



Subject : **BOTANY**

- Which of the following helps in growth and root hair formation in a plant?

(1) Auxin & Ethylene (2) Auxin & GA3
(3) Auxin (4) Abscisic acid
- Assertion (A): Crossing over comes under enzyme mediated process.
Reason (R): Lyase enzyme mediates crossing over process.

(1) (A) and (R) are true and (R) is the correct explanation of (A).
(2) (A) and (R) are true and (R) is not the correct explanation of (A).
(3) (A) is true but (R) is false.
(4) (A) is false but (R) is true.
- The checkpoint that gets activated when DNA replication fork is stalled is,

(1) G1/S (2) M
(3) G2/M (4) Both G1 and G2

Subject : **ZOOLOGY**

- Find the odd one out.

(1) Seed bank (2) Gene bank
(3) National Park (4) Zoological Park
- Match the Following

(a) Tidal volume (i) 2500–3000 ml
(b) Inspiratory reserve volume (ii) 1100–200 ml
(c) Expiratory reserve volume (iii) 500–550 ml
(d) Residual volume (iv) 1000–1100 ml

(1) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
(2) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)
(3) (a)-(i), (b)-(iv), (c)-(ii), (d)-(iii)
(4) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
- Which of the following Ecological pyramid is always upright?

(1) Pyramid of numbers (2) Pyramid of biomass
(3) Pyramid of energy (4) None of the above

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