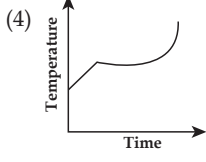
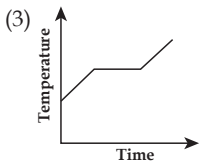
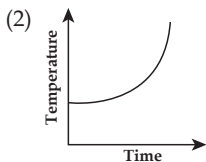
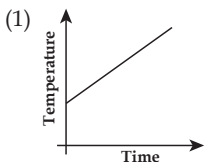




Subject : **PHYSICS**

- The electric dipole moment of an electron and a proton 5nm apart is.
(1) 8×10^{-28} Cm (2) 5.6×10^{-29} C²m
(3) 7.2×10^{-14} C (4) 1.1×10^{-46} C²m
- Liquid oxygen at 50 K is heated to 323 K at constant pressure of 1 atm. The rate of heating is constant. Which one of the following graphs represents the variation of temperature with time?



- A stone is thrown with an initial speed of 5 m/s from a bridge in vertically upward direction. It falls down in water after 2 sec. The height of the bridge is
(1) 5.9 m (2) 9.6 m (3) 19.8 m (4) 24.7 m

Subject : **CHEMISTRY**

- Match the Following
(a) Riboflavin (i) Loss of appetite
(b) Pyridoxine (ii) Convulsions
(c) Thiamine (iii) Increased blood clotting time
(d) Vitamin- K (iv) Burning sensation on skin
(1) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
(2) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)
(3) (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)
(4) (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i)
- Calculate the number of σ and π bonds are present in the following compound 2,9-dimethyl-1,3,6-decadiene.
(1) 32 σ -bonds, 2 π -bonds (2) 33 σ -bonds, 2 π -bonds
(3) 27 σ -bonds, 2 π -bonds (4) 25 σ -bonds, 2 π -bonds


- Depict the galvanic cell in which the given reaction takes place $\text{Cu}_{(s)} + 2\text{Ag}^+_{(aq)} \rightarrow 2\text{Ag}_{(s)} + \text{Cu}^{2+}_{(aq)}$

- (1) $\text{Cu}_{(s)} | \text{Cu}^{2+}_{(aq)} || \text{Ag}^+_{(aq)} | \text{Ag}_{(s)}$ (2) $\text{Ag}_{(s)} | \text{Ag}^+_{(aq)} || \text{Cu}^{2+}_{(aq)} | \text{Cu}_{(s)}$
(3) Both 1 and 2 (4) None of these

Subject : **BOTANY**

- Select the correct pattern of arrangement of reproductive structures of gymnosperms
(1) Spores \rightarrow Sporophyll \rightarrow Sporangia \rightarrow Strobili
(2) Spores \rightarrow Sporangia \rightarrow Sporophylls \rightarrow Strobili
(3) Sporangia \rightarrow Sporophyll \rightarrow Spores \rightarrow Strobili
(4) Spores \rightarrow Sporangia \rightarrow Strobili \rightarrow Sporophylls
- Which of the following algae produce carrageenan?
(1) Blue green algae (2) Green algae
(3) Brown algae (4) Red algae
- Match the Following
(i) Natural Auxin (a) Naphthalene Acetic Acid
(ii) Synthetic auxin (b) Zeatin
(iii) Bakane disease of rice (c) Indole Acetic Acid
(iv) Natural cytokinin (d) Gibberellic acid
(1) i-(c), ii-(a), iii-(d), iv-(b)
(2) i-(a), ii-(c), iii-(d), iv-(b)
(3) i-(c), ii-(a), iii-(d), iv-(b)
(4) i-(d), ii-(a), iii-(c), iv-(b)

Subject : **ZOOLOGY**

- The type of chromosome given in the diagram is
(1) Metacentric (2) Submetacentric
(3) Acrocentric (4) Telocentric
- 
- The steroid hormone among the following is
(1) Insulin (2) Epinephrine
(3) LH (4) Cortisol
 - The Digestive system of Molluscs contain a rasping Organ called
(1) Radula (2) Haemocoel
(3) Statocyst (4) Proboscis

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