

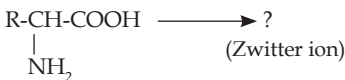


Subject : **PHYSICS**

- Calculate the binding energy of an artificial satellite of mass 80 kg revolving at height of 1600 km from the earth surface.
(1) 4×10^9 J (2) 2×10^9 J (3) 8×10^9 J (4) 6×10^9 J
- Moment of inertia of a ring of mass, $m = 4$ gm and radius, $r = 1$ cm about an axis passing through its edge and parallel to its natural axis
(1) 10 gcm^2 (2) 100 gcm^2 (3) 8 gcm^2 (4) 1 gcm^2
- A 6m long copper wire of cross-sectional area 1.2 cm^2 is stretched by a force of 4.8×10^3 N. Young's modulus for copper, $Y = 1.2 \times 10^{11} \text{ N/m}^2$, the increase in length of wire is
(1) 2.0 mm (2) 0.8 mm (3) 0.48 mm (4) 5.36 mm

Subject : **CHEMISTRY**

- In this following reaction, what will be the structure of the product?



- | | |
|---|---|
| (1) $\begin{array}{c} \text{R-CH-COO}^- \\ \\ +\text{NH}_3 \end{array}$ | (2) $\begin{array}{c} \text{R-CH-CHO} \\ \\ +\text{NH}_2 \end{array}$ |
| (3) $\begin{array}{c} \text{R-CH-COO}^- \\ \\ -\text{NH}_2 \end{array}$ | (4) None of these |
- $\Lambda^\infty \text{ m}$ for NaCl, HCl and CH_3COONa are 126.4, 425.9 and $91 \text{ Scm}^2\text{mol}^{-1}$. Calculate $\Lambda^\infty \text{ m}$ for CH_3COOH .
(1) $208.5 \text{ Scm}^2\text{mol}^{-1}$ (2) $390.5 \text{ Scm}^2\text{mol}^{-1}$
(3) $461.3 \text{ Scm}^2\text{mol}^{-1}$ (4) $208.3 \text{ Scm}^2\text{mol}^{-1}$
- Choose the incorrect statement.
(1) Boron occurs as borax, kernite and orthoboric acid.
(2) Boron is a very rare element in earth's crust.
(3) There are two isotopic form of boron i.e., ^{10}B (19%) and ^{11}B (81%).
(4) In India, borax occurs in Puga valley and Sambhar lake.

Subject : **BOTANY**

- Which of the following statements is incorrect?
(1) Cyclic photophosphorylation involves both PS-I and PS-II.
(2) Both ATP and NADPH + H^+ are synthesized during non-cyclic photophosphorylation.
(3) Stroma lamellae have PS I only and lack NADP reductase.
(4) Grana lamellae have both PS-I and PS-II.
- Respiratory Quotient (RQ) value for carbohydrates conversion to organic acids is
(1) <1 (2) >1
(3) Equal to 0 (4) ∞ (Infinity)
- Choose the incorrect pair
(1) Potassium - Maintenance of turgidity of cell
(2) Zinc - Synthesis of Ethylene
(3) Molybdenum - Nitrogen metabolism
(4) Boron - Pollen germination

Subject : **ZOOLOGY**

- In ECG, end of Ventricular Systole is represented by
(1) T wave (2) End of T wave
(3) P wave (4) End of P wave
- Select the correct statement about Sickle cell anemia.
(1) Glutamic acid is substituted by Alanine.
(2) The substitution occurs at 4th position of beta globin chain.
(3) It is a sex linked recessive disorder.
(4) Under low oxygen tension, RBC becomes sickle shaped.
- The hormone produced only during pregnancy is
(1) Relaxin, hCG
(2) Estrogen, Progesterone
(3) Progesterone, Relaxin
(4) LH, Estrogen

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