



NEET MODEL QUESTIONS

SET-6

Subject : PHYSICS

- Derive an expression for the velocity of sound (v) which may depend upon the modulus of elasticity (E) of the medium and density (d) of the substance.
(1) $v \propto E^{1/2} d^{-1/2}$ (2) $v \propto E^{-1/2} d^{1/2}$ (3) $v \propto E^{1/2} d^0$ (4) $v \propto E^0 d^{1/2}$
- A proton moving with a velocity 2.5×10^7 m/s, enters a magnetic field of intensity 2.5 T making an angle 30° with the magnitude field. The force on the proton is
(1) 3×10^{-12} N (2) 5×10^{-12} N (3) 6×10^{-12} N (4) 9×10^{-12} N
- An electron changes its position from orbit $n = 4$ to the orbit $n = 2$ of an atom. The wavelength of the emitted radiation's is ($R = \text{Rydberg's constant}$)
(1) $16/R$ (2) $16/3R$ (3) $16/5$ (4) $16/7R$

Subject : CHEMISTRY

- Reason for white fumes around the anhydrous AlCl_3 .
(1) Dimerization of AlCl_3
(2) Formation of SO_2
(3) Absorption of moisture
(4) Formation of Oxygen gas
- Choose the correct order of catenation,
(1) $\text{C} \ll \text{Si} < \text{Ge} = \text{Sn} < \text{Pb}$ (2) $\text{C} >> \text{Si} > \text{Ge} = \text{Sn} > \text{Pb}$
(3) $\text{C} >> \text{Si} > \text{Ge} = \text{Sn}$ (4) $\text{C} >> \text{Si} < \text{Ge} = \text{Sn}$
- In this reaction, a carboxylic acid having an alpha hydrogen which is treated with Cl/Br in presence of red phosphorus, it will give an alpha halo carboxylic acid, so what it is?
(1) Kolbe electrolysis
(2) Wolff-Kishner reduction
(3) Hell-Volhard Zelinsky reaction
(4) Aldol condensation

Subject : BOTANY

- Match the Following
(i) Lady bird (a) Methanobacterium
(ii) Mycorrhiza (b) Trichoderma
(iii) Biological control (c) Aphids
(iv) Biogas (d) Glomus
(1) i-(b), ii-(d), iii-(c), iv-(a) (2) i-(c), ii-(d), iii-(b), iv-(a)
(3) i-(d), ii-(a), iii-(b), iv-(c) (4) i-(c), ii-(b), iii-(a), iv-(d)

- Arrange the following process in the sequence used in rDNA technology.
1. Isolation of DNA.
2. Fragmentation of DNA by RE.
3. Transferring rDNA into host.
4. Isolation of desired DNA fragment.
5. Ligation of DNA fragment into vector.
6. Extraction of the desired product.
7. Culturing host cells in a medium at large scale.
(1) 1, 2, 4, 5, 3, 7, 6 (2) 1, 2, 3, 4, 6, 5, 7
(3) 2, 1, 3, 4, 5, 6, 7 (4) 1, 2, 3, 5, 4, 7, 6
- Choose the correct statement regarding Somatic hybridization.
(i) Protoplasts of different cells of the same plant are fused.
(ii) Protoplasts from cells of different species can be fused.
(iii) Treatment of cells with cellulase and pectinase is mandatory.
(iv) The hybrid protoplast contains characters of only one parental protoplast.
(1) (i) & (iii) (2) (i) & (ii) (3) (i) & (iv) (4) (ii) & (iii)

Subject : ZOOLOGY

- Choose the correct sequence regarding Decomposition Process
(1) Fragmentation \rightarrow Leaching \rightarrow Catabolism \rightarrow Humification \rightarrow Mineralization.
(2) Fragmentation \rightarrow Catabolism \rightarrow Leaching \rightarrow Humification \rightarrow Mineralization.
(3) Fragmentation \rightarrow Humification \rightarrow Catabolism \rightarrow Leaching \rightarrow Mineralization.
(4) Fragmentation \rightarrow Mineralization \rightarrow Leaching \rightarrow Humification \rightarrow Catabolism.
- The amount of filtrate formed by Human kidneys per minute is.
(1) 125 litres/day (2) 180 ml/minute
(3) 1.5 litres/day (4) 125 ml/minute
- Which of the following bone is not included in Axial skeleton?
(1) Hyoid bone (2) Thoracic vertebra
(3) Coxal bone (4) Ear Ossicles

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