

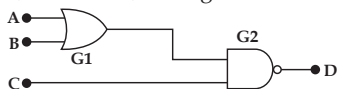


NEET MODEL QUESTIONS

SET-5

Subject : PHYSICS

- If a rod has resistance $5\ \Omega$ and if rod is turned as half circle, then the resistance along diameter is
(1) $1.56\ \Omega$ (2) $2.5\ \Omega$ (3) $5\ \Omega$ (4) $10\ \Omega$
- A force acting on an electric charge q , in presence of an electromagnetic field, moves the charge parallel to the magnetic field with velocity \vec{v} . The \vec{F} is equal to (where \vec{E} and \vec{B} are electric field and magnetic field respectively).
(1) $q\vec{E}$ (2) $q(\vec{v} \times \vec{B})$ (3) $q(\vec{v} \times \vec{E})$ (4) $q\vec{B}$
- For the given combination of gates, if the logic states of inputs A, B, C are as follows $A = B = C = 1$ and $A = \bar{B} = 0, C = 1$ then, the logic states of output D are



- (1) 0, 0 (2) 0, 1 (3) 1, 0 (4) 1, 1

Subject : CHEMISTRY

- Choose the correct statement.
(1) All enzymes are globular protein.
(2) They named after the compound but sometimes named after the reaction, where they used.
(3) Enzymes are very specific for a particular reaction.
(4) All the above said statements are correct.
- $\text{CH}_3\text{-CH=CH-CH}_2\text{-CH}_2\text{-CN} \xrightarrow[\text{H}_2\text{O}]{\text{DIBAL-H}}$
(1) $\text{CH}_3\text{-CH=CH-CH}_2\text{-CH}_2\text{-COOH}$.
(2) $\text{CH}_3\text{-CH=CH-CH}_2\text{-CH}_2\text{-CHO}$.
(3) $\text{CH}_3\text{-CH=CH-CH}_2\text{-CH}_2\text{-OH}$.
(4) $\text{CH}_3\text{-CH=CH-CH}_2\text{-CH}_2\text{-COO-CH}_3$.
- Choose the wrong match.
(1) Ohm meter - Resistivity
(2) Ohm/meter - Resistance
(3) Siemens - Conductance
(4) Siemens/meter - Conductivity

Subject : BOTANY

- If the number of chromosomes in root cell of male plant is 40 and leaf cell of female plant is 60. What would be the number of chromosomes in their endosperm?
(1) 60 (2) 70 (3) 80 (4) 90
- In the process of transcription, the strand of DNA with polarity _____ acts as a _____ strand.
(1) $5' \rightarrow 3'$, Coding (2) $3' \rightarrow 5'$, Template
(3) $3' \rightarrow 3'$, Coding (4) $5' \rightarrow 3'$, Template
- On DNA analysis, no. of nucleotides is 5386, Adenine = 29%, Guanine = 17%, Cytosine = 32%, Thymine = 17% were obtain. Using Chargaff's rule, it can be concluded that,
(1) It is a double stranded circular DNA.
(2) It is a single stranded DNA.
(3) It is a double stranded linear DNA.
(4) No conclusion can be drawn.

Subject : ZOOLOGY

- Which of the following statements is correct regarding the Phylum Arthropoda?
(1) It is the largest phylum of Kingdom Animalia.
(2) Body is asymmetrical, triploblastic.
(3) Molting does not take place.
(4) Circulatory system is of closed type.
- Tiger is not a resident, in which one of the following National Park?
(1) Ranthambore (2) Sundarbans
(3) Gir (4) Jim Corbett
- SCID is a genetic disorder caused by Adenosine deaminase (ADA) deficiency. In which of the following chromosome ADA gene is located?
(1) Chromosome 22
(2) Chromosome 20
(3) Chromosome 24
(4) Chromosome 25

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