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3 Year Validity (Multiple Devices)

CSIR Life Science Sample Questions (Part 2 of 10)

1. Oxygen is reduced to water in which stage of respiration?
 - a. Glycolysis
 - b. Krebs' cycle
 - c. ETC
 - d. All of the above
2. Nitrogen fixation means, conversion of
 - a. Nitrates to ammonia
 - b. Nitrogen to ammonia
 - c. Ammonia to nitrates
 - d. Proteins to ammonia
3. The hypothalamus is a major coordinating and control center because:
 - a. it stimulates appropriate responses by peripheral target cells
 - b. it stimulates responses to restore homeostasis
 - c. it initiates endocrine and neural reflexes
 - d. it contains autonomic centers and acts as an endocrine organ
4. The amino acid derivative hormone epinephrine is responsible for:
 - a. release of lipids by adipose tissue
 - b. glycogen breakdown
 - c. increased cardiac activity
 - d. all of the above

5. In a cross $AaBbCcDd \times AaBbCcDd$, what is the probability of producing the genotype $AABbccDd$
- $\frac{1}{8}$
 - $\frac{1}{16}$
 - $\frac{1}{32}$
 - $\frac{1}{64}$
6. Inheritance of ABO blood group shows
- Polyploidy
 - polygyny
 - multiple allelism
 - incomplete dominance
7. Species of a genus have common
- Karyotype
 - Ancestry
 - Genetic material
 - Anatomy
8. Which among the following is NOT true about Simpson's index (D)
- It is directly proportional to dominance
 - It is inversely proportional to diversity
 - It is directly proportional to diversity
 - None of the above
9. Phytoplanktons occur abundantly in which zone
- Littoral
 - Profundal
 - Limnetic
 - Benthic
10. Oligotrophic soils have
- High Nutrient retention capacity
 - high leaching rate
 - Poor nutrient retention capacity
 - Low leaching rate
- Choose the correct option among the following:
- 1 2
 - 2 3

c. 1 4

d. 3 4