

## CSIR Life Science Sample Questions (Part 2 of 10)

1. Oxygen is reduced to water in which stage of respiration?
  - a. Glycolysis
  - b. Krebs's 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  $AABbccDd$ 
  - a.  $\frac{1}{8}$

b.  $1/16$

c.  $1/32$

d.  $1/64$

6. Inheritance of ABO blood group shows

a. Polyploidy

b. polygyny

c. multiple allelism

d. incomplete dominance

7. Species of a genus have common

a. Karyotype

b. Ancestry

c. Genetic material

d. Anatomy

8. Which among the following is NOT true about Simpson's index (D)

a. It is directly proportional to dominance

b. It is inversely proportional to diversity

c. It is directly proportional to diversity

d. None of the above

9. Phytoplanktons occur abundantly in which zone

a. Littoral

b. Profundal

c. Limnetic

d. Benthic

10. Oligotrophic soils have

a. High Nutrient retention capacity

b. high leaching rate

c. Poor nutrient retention capacity

d. Low leaching rate


Choose the correct option among the following:

a. 1 2

b. 2 3

c. 1 4

d. 3 4

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