

Examrace

Competitive Exams: Zoology MCQs (Practice_Test 58 of 112)

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1. Which one of the following does not happen when the sympathetic nervous system is strongly activated?
 - a. Increased heart beat
 - b. Secretion of sweat
 - c. Constriction of pupils
 - d. Decreased secretion of saliva
2. Which one of the following statements is correct? The main difference in the structure of the internal ear between birds and mammals is that, in case of birds, which one of
 - a. the lagena becomes a long curved tubular cochlear duct.
 - b. the lagena develops into a coiled tube to form the cochlear duct.
 - c. the endolymphatic duct is enclosed inside the perilymph containing duct.
 - d. the cochlear duct never becomes closed at both ends.
3. Which one of the following is a conjugated protein?
 - a. β -D Glucosamine
 - b. Plastocyanin
 - c. Amylopectin
 - d. Chitin
4. The Michaelis constant is a measure of which one of the following?
 - a. Concentration of the enzyme
 - b. Catalytic efficiency of the enzyme
 - c. Thermo-stability of the enzyme
 - d. Affinity of the enzyme for its substrate
5. Consider the following statements:
 - a. All enzymes require an additional chemical component called cofactor or coenzyme for their catalytic function.

b. The Factor for pyruvate kinase is K^+ .

Which of the statements given above is/are correct?

a. 1 only

b. 2 only

c. Both 1 and 2

d. Neither 1 nor 2

6. In the context of comparative study of excretory system of vertebrates, which one of the following is a special device for water conservation in mammals?

a. Bowman's capsule

b. Proximal convoluted tubule

c. Loop of Henle

d. Collecting duct

7. Consider the following:

a. Cyclostomes

b. Aquatic amphibians

c. Larval stages of terrestrial amphibians

In which of the above is lateral line system found?

a. 1 and 2 only

b. 2 only

c. 1 and 3 only

d. 1, 2 and 3

8. In the context of biological oxidation-reduction reactions, consider the following enzymes:

a. Acyl CoA dehydrogenase

b. Glycerol 3-phosphate dehydrogenase

c. Succinate dehydrogenase

Which of the above enzymes employ

Flavin Nucleotide Coenzymes?

a. 1 only

b. 2 and 3 only

c. 3 only

d. 1, 2 and 3

9. For every molecule of NADH₂ that is oxidised via the electron transport system, what is the number of ATPs formed?

a. 1

b. 2

c. 3

d. 5

10. In the context of DNA cloning, consider the following:

a. Bacteriophages

b. Bacterial artificial chromosomes

c. Yeast artificial chromosomes

Which of the above is/are cloning vectors?

a. 1 only

b. 1 and 2 only

c. 2 and 3 only

d. 1, 2 and 3

11. In their experiment to prove that DNA is the genetic material, which one of the following isotopes was used by Hershey and Chase to label bacteriophages?

a. ¹⁴C

b. ¹⁵N

c. ³²P

d. ³H

12. Consider the following statements:

a. The molecular weight of RNA polymerase is greater than that of DNA polymerase I.

b. RNA polymerase starts chains without primer whereas DNA polymerase I starts chains with primer.

Which of the statements given above is/are correct?

- a. 1 only
 - b. 2 only
 - c. Both 1 and 2
 - d. Neither 1 nor 2
13. Who of the following is associated with the discovery of bacterial transformation?
- a. Erwin Chargaff
 - b. Frederick Griffith
 - c. Robert Koch
 - d. Thomas Hunt Morgan
14. Which one of the following is the role of a σ subunit of RNA polymerase?
- a. Bringing the core enzyme near to the DNA
 - b. Binding the ribonucleotides prior to RNA synthesis
 - c. Recognition of the promoter site
 - d. Catalysing ribonucleotide-joining to the growing RNA chain
15. Consider the following statements:
- a. Cholesterol is a structural component of biological membranes.
 - b. Sphingolipids at cell surfaces are the sites of biological recognition

Which of the statements given above is/are correct?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2