

CSM : 17

ZOOLOGY

PAPER - II

Time Allowed : 3 hours

Full Marks : 100

Marks for each question is indicated against it.

Attempt any 5 (five) questions taking not more than 3 (three) questions from each Part.

PART - A

1. Give an outline of cell cycle. Describe how cell cycle is controlled through cyclin-CDK complexes. (8+12=20)
2. What is mutation? Explain the various types and causes of mutations. (2+9+9=20)
3. Illustrate the structure of DNA based on Watson-Crick model. Add a note on the types of RNA. (12+8=20)
4. Explain the reactions involved in TCA cycle and electron transport system. (10+10=20)

PART - B

5. Describe the structure of skeletal muscle. How does skeletal muscle contract at the molecular level? (10+10=20)
6. Define resting and action potentials. Describe the propagation of action potential on a neuron. (6+14=20)
7. Describe the structure of spermatozoon. Delineate the process of spermatogenesis. (8+12=20)
8. Give an account on the types and functions of immunoglobulins. Illustrate the structure of IgG. (10+10=20)

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