

CSM : 22

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. Explain the stages of cell cycle and the regulation by cyclin-CDK complexes. (20)
2. Write an account on the causes and symptoms of Down syndrome and haemophilia. (20)
3. Describe the types of DNA repair mechanisms. (20)
4. "TCA is the central pathway in the energy metabolism of the cell." Discuss. (20)

PART - B

5. Illustrate the structure of skeletal muscle. Describe the mechanism of muscle contraction. (8+12=20)
6. What are steroid hormones? Explain the mechanism of steroid action. (4+16=20)
7. Describe the process of metamorphosis in amphibians with a note on its regulation. (20)
8. What is the principle of vaccination? Differentiate between live attenuated vaccines and inactivated vaccines with examples. (8+12=20)

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