

**CSM : 14**

**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. Write a note on the structure and function of Lysosomes and Golgi complex. (10+10=20)
2. Write an account on the possible causes and symptoms of Down's Syndrome and Haemophilia. (10+10=20)
3. What is DNA? Describe the double helical structure of DNA giving detailed structures of the different types of nitrogenous bases, sugar and phosphate group involved. How is RNA different from DNA in structure? (2+14+4=20)
4. Describe in detail the Krebs cycle or the Tricarboxylic acid cycle. (20)

**PART B**

5. Distinguish each of the levels of muscle organisation: myofilaments, myofibrils, muscle fibers and muscle. Explain the 'sliding filament theory'. Discuss how calcium regulates muscle contraction. (8+6+6=20)
6. Describe the structure of the Pituitary gland. Add a note on the hormones secreted by it and their physiological functions. (4+16=20)
7. Describe the structure and endocrine functions of testis and ovary. (10+10=20)
8. Distinguish between Innate and Acquired Immunity. Describe the structure and function of Antibodies. (6+14=20)

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