

CSM – 71/16
Zoology
Paper – II

Time : 3 hours

Full Marks : 300

The figures in the right-hand margin indicate marks.

*Candidates should attempt Q. No. 1 from Section – A and Q. No. 5 from Section – B which are compulsory and **three** of the remaining questions, selecting at least **one** from each Section.*

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SECTION – A

1. Give an account on any **three** of the following :
20×3 = 60
 - (a) Mitotic apparatus
 - (b) Karyotype
 - (c) Mutation
 - (d) Cloning
2. Discuss the ultrastructure and function of plasma membrane. 60
3. Give an account of the determination of sex in animals. 60

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(Turn over)

4. Write notes on the following : $15 \times 4 = 60$
- (a) Eukaryotic chromosome
 - (b) Biological nomenclature
 - (c) Evaluation of horse
 - (d) Plasmid

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SECTION – B

5. Write any **three** of the following : $20 \times 3 = 60$
- (a) Enzyme
 - (b) Urine formation
 - (c) Placenta
 - (d) Vaccine
6. Discuss the structure and function of mammalian thyroid. 60
7. Define and describe bacterial transduction. 60
8. Write notes on the following : $15 \times 4 = 60$
- (a) Glycolysis
 - (b) Blood group
 - (c) Stem cells
 - (d) Transplantation

