

CSM – 71 / 15
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.*

Section – A

1. Give an account of any **three** of the following :

20×3 = 60

 - (a) Polymorphism in lysosomes
 - (b) Mendel's law of inheritance
 - (c) Genetic drift
 - (d) Human genome project
2. Explain the various salient features of cancer cells.

60

3. Write an essay on organisation of eukaryotic chromosomes. 60

4. Write notes on the following : $15 \times 4 = 60$

- (a) Cell cycle
- (b) Genetic basis of sex determination
- (c) Principle of animal classification
- (d) DNA finger printing

Section – B

5. Explain any **three** of the following : $20 \times 3 = 60$

- (a) Krebs cycle
- (b) Cardiac cycle
- (c) Spermatogenesis
- (d) Hypersensitivity

6. Give a detailed account on the mechanisms of action of peptide hormones. 60

7. Describe the sequential events in the process of fertilization. 60

8. Write notes on the following :

15×4 = 60

- (a) Laws of thermodynamics
- (b) Blood coagulation
- (c) Mammalian placenta
- (d) Mode of action of antibiotics



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