

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 : 15×4 = 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 : 20×3 = 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

