

# DRONA

**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**

**DA – 32/2**

**(Turn over)**

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

