

# IAS Mains Animal Husbandry and Veterinary Science 1991

## Paper-II

### Section A

1. Write short notes on any three of the following in about 200 words each:
  - a. Resemblance between Relatives
  - b. Rotational Crossbreeding
  - c. Selection Index
  - d. Linebreeding
2. What is General combining Ability and what is Specific Combining Ability? How can these be exploited by a breeder for enhancing livestock productivity?
3. What is variance? Describe different methods of partitioning Variance into all its component. How can you use the knowledge of different components of variance in planning breeding strategies for livestock?
4. Write an essay on Hardy-Weinberg Law. Elaborate the three steps in which it is derived. Also describe Hardy-Weinberg Equilibrium.

### Section B

5. Write short notes on any three of the following in about 200 words each:
  - a. Black Quarter
  - b. Common Histological Stains
  - c. Rinderpest
  - d. Ice Cream and Kulfi
6. Write down the names of five common poultry diseases along with their etiology and two important symptoms. Also write six major methods for the prevention of all these diseases in general.
7. Describe the different extension methods adopted to educate farmers under rural conditions. What are the advantages and limitations of these methods?
8. What is the current status of dairy cattle cross breeding in India? What are the different limiting factors associated with crossbreeding as a method of upgrading local cattle? Enumerate the solutions which can give a further fillip to the crossbreeding work so as to augment milk production.