

# IAS Mains Animal Husbandry and Veterinary Science 1993

## Paper-II

### Section A

1. Write short notes on any three of the following in about 200 words each:
  - a. Sympathetic and para sympathetic receptors in the body
  - b. Cell mediated immune response
  - c. Non-additive genetic variance
  - d. Butter making
2. Define Heritability. What are the different methods of its estimation? Discuss their merits and demerits and state how heritability differs from repeatability.
3. Name the important viral diseases of Poultry. Discuss the measures to be adopted for prevention and control of disease outbreak at an organised Poultry Farm.
4. Enumerate various routes of administration of drug and describe the routes useful in administration of large amount of fluids.

### Section B

5. Write short notes on any three of the following in about 200 words each:
  - a. Reciprocal recurrent selection
  - b. Zoonotic bacterial diseases
  - c. Insecticides poisoning in animals
  - d. ISI and Agmark specifications
6. Enumerate different methods of breeding. State merits and demerits of inbreeding and outbreeding. Give a suitable plan of crossbreeding, indicating area of operation, breed chosen and basic infrastructure required.
7. What are various milk borne diseases? Discuss in brief their epidemiology, prevention and control.
8. What is primary induction? Discuss whether it is physical or chemical in nature and the role it plays in the embryonic development of a calf.