AS Mains Animal Husbandry and Veterinary Science 1992

Paper-II

Section A

1. Write short notes on any three of the following in about 200 words each:

    a. Fisher's theorem of natural selection

    b. Polymorphism

    c. Path coefficient

    d. Species crossing

2. Describe different systems of mating that increase the level of homozygosity. How can these systems be used for enhancing production in poultry?

3. Describe heritability and its standard error. Describe the practical used of heritability in different situations. How can you improve the estimate of heritability?

4. Give mathematical derivations of migration and selection as forces changing gene frequency. How can an animal breeder use migration and selection as tools of bringing about alteration in genetic constitution of his animals?

Section B

5. Write short notes on any three of the following in about 200 words each:

    a. Rabies

    b. Channa and cheese

    c. Marek's disease

    d. Trysem

6. Discuss the current status of Rinderpest disease in India. Describe the strategy of prevention and control.

7. Write an essay on endocrine glands in health and disease.

8. What are the constraints in the production, processing, storage, distribution and marketing of milk in India? Discuss strategies to overcome these constraints to make milk production profitable.