

IAS Mains Animal Husbandry and Veterinary Science 1994

Paper-II

Section A

1. Write short notes on any three of the following in about 200 words each:
 - a. Heterosis
 - b. Blood protozoan diseases
 - c. Lethal factors and genetic abnormalities
 - d. Freezing microtomy
2. Variation in animal population plays an important role in animal improvement. Describe sources of variation and its implications in breeding programme.
3. Rapid upgradation of livestock in the country is a priority. Detail a plan keeping in view the local, regional and socio-economic requirements to achieve this aim incorporating the new technology available.
4. Ranikhet disease is reported from many places even after immunizations. Enumerate various factors which may be responsible and suggest measures for its control.

Section-B

5. Write short notes on any three of the following in about 200 words each:
 - a. Sanitary analysis of water
 - b. Blood smear as an aid to diagnosis
 - c. Humoral antibody
 - d. Ripening of cheese
6. Tuberculosis is an important zoonotic disease. Outline a programme for eradicating this disease from livestock population of the country. List measures to be taken to check the spread of infection to human beings.
7. Define and deduce Hardy Weinberg Law by mating frequency. Discuss the influence of selection on genetic prop-arties of population. In a herd, frequency of recessive gene is 0.2. Calculate the new frequency after complete selection of recessive homozygous genotypes for 5 generations.
8. Discuss various methods of preservation, including the newer technology of meat and poultry products.