

IAS Mains Animal Husbandry and Veterinary Science 1998

Paper-I

Section A

1. Write short notes on any three of the following in about 200 words each:
 - a. Management schedule of a farmer having two acres of land for sustenance through Animal Husbandry programme in drought prone area
 - b. Role of protozoa in rumen
 - c. Preservation of fodder for its best utilisation during lean season
 - d. Mineral requirements of a lactating cow.
2. Discuss the requirement of protein, energy, minerals, vitamins, trace elements, amino acids and water for a fattening pig.
3. Suggest a development programme to enhance production of animals in a remote village with available resource and input supply. Discuss in detail how your message will reach the masses. How will you evaluate the growth in coming years?
4. Formulate a project for starting a broiler farm to produce 100 broilers per week. Discuss in detail about finance, land, building equipments, feeding schedule, selection of stock, marketing and uninterrupted chain of supply.

Section B

5. Write short notes on any three of the following in about 200 words each:
 - a. Sexing of chicks through exploitation of sex linked genes
 - b. Restricted selected index
 - c. Synchronisation of oestrus in cow
 - d. Recurrent reciprocal selection and its application in swine breeding
6. What is inbreeding? How is coefficient of inbreeding calculated? Discuss the merits of inbreeding. How can you control inbreeding in existing artificial insemination programme? What constraints will you come across and how will you overcome those?
7. Name and describe indigenous breeds of sheep with reference to wool and mutton production. Name two exotic breeds. Suggest a suitable breeding programme using exotic breed (s) for wool production.
8. Discuss in brief development of mammary glands and physiology of lactation in cow. Do you advocate three times milking daily in a dairy farm? Justify your statement.