

IAS Mains Animal Husbandry and Veterinary Science 1991

Paper-I

Section A

1. Write short notes on any three of the following in about 200 words each:
 - a. Significance of urea feeding in cattle
 - b. Deep freezing of semen of cattle and buffalo
 - c. Mineral requirements of a lactating cow
 - d. Adaptation of goats from the stand-points of land use and economy
2. Name and discuss the pertinent points which need to be considered for feeding:
 - a. Dry cows
 - b. Cows at calving times
 - c. Calves up to the age of 4 months
3. Discuss the advantages and limitations of each of the following methods for evaluating feeds:
 - a. Chemical analysis
 - b. Total digestible nutrients
 - c. Feeding trials
4. How would you establish a flock of about 100 sheep? What factors would you consider? Justify your decisions.

Section B

5. Write short notes on any three of the following in about 200 words each:
 - a. Advantages and limitations of Artificial Insemination
 - b. Methods of controlling climatic stress in cattle
 - c. Nutritive values of pasteurized, standardized and homogenized milk
 - d. Sanitary requirements for producing clean milk
6. What are the problems in collection and transportation of raw milk from rural to urban areas in India? How can these be overcome?
7. Discuss the physiological and environmental factors which affect the amount and composition of milk in dairy cattle.
8. Discuss the role of rumen in digesting protein and non-protein nitrogenous feed materials. Also state how the ruminants satisfy their requirements of essential amino acids by this process.