

ANIMAL HUSBANDRY AND VETERINARY SCIENCE – PAPER-I

Time Allowed : 3 Hours

Full Marks : 200

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

Answers may be written either in English or in Bengali but all answers must be in one and the same language

GROUP-A

Answer any three Questions :

1. a) What are the common feeds and fodder for a lactating cow ?  
Classify the feed stuff for the same. 10
- b) Please specify the requirement of energy for maintenance, growth, pregnancy and lactation in milk producing cow. 15
- c) Please describe the balance ration of a dairy cattle during their different phases of growth and production. 15
2. a) Describe the role of preboitics, probiotics, antibiotics, antioxidants and enzymes in feed activity of cattles. 10
- b) Describe the economic importance of commercial poultry farming and backward poultry farming. 15
- c) What is Sire index ? Describe the method of breeding for commercial production in livestock. 15
3. a) Describe different hormones related to reproduction in cattle. 10
- b) Describe puberty, sexual maturity, libido, artificial preservation semen, deep freezing of semen. 15
- c) What is silent heat ? Describe the symptoms of heat. Describe the method of detection of oestrus and calculation of ideal time for artificial insemination. 15
4. a) What are the common causes of abortion in dairy cattle ? What are the common causes of dystocia in cow and describe the management. 15
- b) What is the composition and nutritive values of milk ? Describe the processing, packaging, storing, distribution and marketing of milk. Describe the milk products available in the market for human consumption. 15
- c) Describe hormonal control of mammary growth, lactogenesis and letting down and holding up of milk. 10

GROUP-B

Answer any two Questions :

5. a) What are the common poultry diseases in India ? How can we prevent it ? What is the nutritive value of poultry meat and egg ? How will you grade eggs ? Describe the different slaughtering techniques of poultry birds ? 15
- b) Describe the parts of female reproductive tract of fowl and their role in egg formation. 10
- c) What are the common Bacterial, Protozoal and viral diseases of domestic livestock. How you can prevent them ? 15
6. a) What is the importance of zoonotic diseases transmitted from animals ? 10
- b) What is the role of veterinarians in animal welfare. 15
- c) Describe the etiology, symptoms and treatment of milk fever, Ketosis, Pregnancy toxemia in domestic animals. 15
7. Write short notes on any eight topics.
- a) Net energy
  - b) Freemartin
  - c) Dentition and ageing of animals
  - d) Quarantine
  - e) Castration
  - f) Disposal of carcasses
  - g) Organic livestock production
  - h) Designer egg
  - i) Phenotype and Genotype
  - j) Preservation of semen
  - k) Toxic plants
  - l) Trypanosomiasis
  - m) Caesarian section
  - n) Conservation of Wildlife