

C.S.E. Animal Hus. & Vet. Sc. (Main) - 2004

PAPER - I

Time Allowed: Three Hours

Maximum Marks: 300

Candidate should attempt Questions 1 and 5 which are compulsory and any three of the remaining questions selecting at least one question from each Section.

SECTION A

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

20 X 3 = 60

 - (a) Methods to control heat stress in buffaloes
 - (b) Induction of lactation in cows
 - (c) Probiotics
 - (d) Nutrients in meat
2. Discuss the principle of deep freezing of semen. What are the advantages and disadvantages of various packaging systems used for deep freezing of semen? Enumerate the precautions to be taken at the time of thawing of frozen semen for artificial insemination? 60
3. Describe the male reproductive system giving names and functions of different organs. What is Cryptorchidism? Draw and label the diagram of reproductive organs of a bull. 60
4. What is the major source of energy in ruminants? Give energy metabolism of propionate in details. What will be the effect of cooked concentrate on milking ruminants? 60

SECTION B

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

20 X 3 = 60

 - (a) Structural chromosomal aberrations
 - (b) Sex influenced and sex limited characters
 - (c) Qualitative and quantitative inheritance
 - (d) Importance of herd recording
6. Define inbreeding. What are the consequences of inbreeding ? Discuss various uses of inbreeding. 60
7. What is progeny testing? How can it be best done for Indian buffaloes? What is the status of progeny testing of buffaloes in India? 60
8. What do you understand by commercial dairy farming? How does dairy farming in India differ from the advanced countries? 60

PAPER - II

Time Allowed: Three Hours

Maximum Marks: 300

Candidates should attempt Questions 1 and 5 which are compulsory and any three of the remaining questions selecting at least one question from each Section.

SECTION A

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

20 x 3 = 60

 - (a) Coordination of blood circulation, respiration and excretion for healthy life
 - (b) Hormonal therapy
 - (c) Vaccination programme against animal diseases
 - (d) Regulations for animal health and wealth
2. Discuss modern concept of diagnosis, treatment and prevention of production diseases of poultry. 60
3. Mention air, water and soil pollutants. Describe diagnosis, effect and solution of pollution for animal health. 60
4. Describe the role of epidemiology for investigation and control of animal diseases under Indian conditions. 60

SECTION B

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

20 x 3 = 60

 - (a) Organization of rural milk procurement
 - (b) Utilization of slaughter-house by-products
 - (c) Meat adulteration and its detection
 - (d) Latest methods of extension education
6. Narrate the plan for supply of hygienic and nutritive milk products from rural, to urban areas. 60
7. Describe duties and functions of veterinarian of slaughter house for production of standard meat. 60
8. Discuss the role of extension workers for implementation of rural herd health programmes to improve farmers economy. 60