

151018

COMBINED COMPETITIVE EXAMINATION (MAIN)  
ANIMAL HUSBANDRY & VETERINARY SCIENCE

Paper-I

Time : 3 Hours

Full Marks : 200

Note : (1) The figures in the right-hand margin indicate full marks for the questions.  
(2) Attempt all questions.

1. Answer any *five* of the following questions : 10×5=50
- (a) Describe the hormonal control of mammary gland development and milk secretion process in a dairy cow.
  - (b) What do you mean by pasteurization? What are different methods applied for pasteurization of milk?
  - (c) Explain the importance of bypass protein and bypass fat in ruminants.
  - (d) What is wool? How does it differ from hair? Describe about the processing of wool.
  - (e) What is superovulation? What are the drugs used for superovulation in cow? Write some applications of superovulation in animal reproduction.
  - (f) "Nothing is wasted except the cry of animal." Explain the statement.
2. Answer any *five* of the following questions : 8×5=40
- (a) What is stress? What are different types of stress? How does heat stress affect on animal production?
  - (b) What is piglet anemia? How will you manage it?
  - (c) Name some extenders used for bull semen preservation. What are the characteristics of a good extender?
  - (d) What is area specific mineral mixture and what is the role of area specific mineral mixture for enhancement of productivity of dairy cows?
  - (e) What are the requirements for production of clean milk?
  - (f) What is balanced ration? How will you formulate a balanced ration for a pregnant cow?

3. Answer any *two* of the following questions : 20×2=40
- (a) Write the principle and procedure of deep freezing of semen.
  - (b) What are the methods to improve nutritive values of roughage and concentrate for animal feeding?
  - (c) Describe different methods of semen collection.
4. Answer any *ten* of the following questions : 5×10=50
- (a) What are the total fat and SNF values of skimmed milk, toned milk and double toned milk?
  - (b) Describe about feeding of animals during flood.
  - (c) What are the accessory sex glands in bull?
  - (d) What are the hormones secreted from pituitary gland related to fertility?
  - (e) Write about the composition of milk of cow and buffaloes.
  - (f) What are different methods of packaging of milk?
  - (g) Describe about the nutrients required for heifers.
  - (h) "Bull is considered as a half of the herd." Explain briefly.
  - (i) What are the methods of controlling environmental stress in a dairy herd?
  - (j) Describe the procedure of preparation of soft curd.
  - (k) What are different parts of female reproductive tract of a cow? Write one function of each part.
5. Answer any *four* of the following questions : 5×4=20
- (a) What are the managerial practices that can be followed for rearing of poultry?
  - (b) What do you mean by herd recording? How will you maintain recording in dairy farm?
  - (c) What are silage and hay? Name the most suitable fodders for the preparation of silage and hay.
  - (d) Describe care and management of a pregnant cow.
  - (e) Write a short note on feed additive and probiotics.