

2. Write short notes on any **FIVE** of the following :-  $5 \times 10 = 50$
- Importance of buffalo in Livestock economy of India
  - HTST system of milk pasteurisation
  - Multi-ovulation and Embryo Transfer
  - Urea Mollases Mineral Bricks
  - Sterilizing Dairy Equipments
  - Cryopreservation of a tool in animal reproduction.
3. Describe different methods for measuring the energy value of feed stuffs and discuss the desirable characteristics of animal ration. 50
4. Describe the different nutritional needs and their sources for formulating balanced concentration ration for starter chicks, layers and broilers. 50
5. Describe the interaction between Mineral-vitamin nutrition and Growth-reproduction in livestock. 50
6. Give a brief account of organised rural milk procurement, collection and transportation of raw milk. 50
7. Describe a detailed building plan of a modern dairy farm and factors to be considered for location. 50
8. Describe the feeding, management and health care practices of animals under climatic stress conditions. 50
9. Give a critical review of the enterpreneurial pig farming in India and discuss general problems in pig farming. 50
10. Describe different causes of sterility in dairy animals with scope and procedure of Induced lactation in such animals. 50

**1(CCEM)0**  
**Animal Husbandry & Veterinary Science**  
**(02)**  
**Paper—I**

Time : Three Hours]

[Maximum Marks : 300

- Note** :— (i) Answers must be written in English.  
(ii) The number of marks carried by each question is indicated at the end of the question.  
(iii) Part/Parts of the same question must be answered together and should not be interposed between answers to other questions.  
(iv) The answer to each question or Part thereof should begin on a fresh page.  
(v) Your answers should be precise and coherent.  
(vi) Candidates should attempt Question Nos. **1** and **2** which are compulsory and any **FOUR** of the remaining questions.  
(vii) If you encounter any typographical error, please read it as it appears in the text-book.

1. Differentiate between any **FIVE** of the following :-  $5 \times 10 = 50$
- Maintenance Ration and Production Ration
  - Hay and Silage
  - Testing and grading of whole milk and cream
  - Allantois and Chorion
  - Spermatogenesis and Oogenesis
  - Fat soluble vitamins and Water soluble vitamins.