

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.  $50$

Roll No. ....

Total No. of Pages : 2

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

Time : Three Hours]

[Maximum Marks : 300

- Note** :—
- Answers must be written in English.
  - The number of marks carried by each question is indicated at the end of the question.
  - Part/Parts of the same question must be answered together and should not be interposed between answers to other questions.
  - The answer to each question or Part thereof should begin on a fresh page.
  - Your answers should be precise and coherent.
  - Candidates should attempt Question Nos. **1** and **2** which are compulsory and any **FOUR** of the remaining questions.
  - 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.