H.P.A.S. (Main)—2013

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

Paper I

Time : 3 Hours

Maximum Marks : 150

Note :- Answer any five questions including question no. 5 which is compulsory.

1. (a) What do you understand by feeding standards? 10

   (b) Enlist the various feeding standards. 10

   (c) Give the merits and demerits of TDN system with reference to monogastic animals. 10

2. (a) Define feed supplements and feed additives. 10

   (b) Explain the role of different feed additives used in animal feeds. 10

   (c) Describe the inter-relationship of calcium, phosphorus and vitamin D. 10

P.T.O.
3. (a) Briefly discuss the hormones necessary for initiation and maintenance of pregnancy, parturition and lactation in dairy cows.

(b) Compare the physical and chemical properties of semen of cattle and buffalo.

(c) Discuss the problems/difficulties in the preservation of buffalo semen.

4. (a) What is the importance of records keeping at dairy farm?

(b) Illustrate the importance of the different records used in dairy farm.

(c) Discuss the nutrient requirement of different categories of horses.

5. Write short notes on any three of following:

(a) Usefulness of probiotics in animal feed
(b) Thermoregulatory mechanism in poultry 10

(c) Role of rumen in protein metabolism 10

(d) Vitamin D milk. 10

6. (a) List the common tests used to assess the quality of milk. 10

(b) Briefly discuss the process of pasteurization of milk. 10

(c) Describe the method of preparation of ice-cream and kulfi. 10

7. (a) What do you understand by organic animal husbandry? 10

(b) Prepare the layout plan for establishment of poultry farm for 100 birds. 10

(c) How will you produce organic poultry meat? 10

P.T.O.
8. (a) What is humane slaughtering method? 10

(b) Describe different methods of preservation of meat and poultry product. 10

(c) Discuss the organ product used as food and in pharmaceuticals. 10