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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. 10
- (b) . Compare the physical and chemical properties of semen of cattle and buffalo. 10
- (c) Discuss the problems/difficulties in the preservation of buffalo semen. 10
4. (a) What is the importance of records keeping at dairy farm ? 10
- (b) Illustrate the importance of the different records used in dairy farm. 10
- (c) Discuss the nutrient requirement of different categories of horses. 10
5. Write short notes on any *three* of following :
- (a) Usefulness of probiotics in animal feed 10

- (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-crème 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

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