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HPAS (Main)—2012

ANIMAL HUSBANDRY AND

VETERINARY SCIENCES

Paper I

*Time : 3 Hours*

*Maximum Marks : 150*

*Note :— Answer any five questions including question no. 5 which is compulsory. Be brief and to the point.*

*Parts of the same questions must be answered together and not to be attempted in between the answers to other questions.*

1. (a) Explain the term Nutrient. 10
- (b) List different classes of nutrients. 10
- (c) What are the main functions of each nutrient class ? 10

P.T.O.

2. (a) Describe growth in Livestock. 10
- (b) List the different measures of growth. 10
- (c) Explain factors affecting growth in farm animals. 10
3. (a) Draw diagram of the Reproductive tract of a cow. 15
- (b) Describe the functions of each part. 15
4. (a) Explain the different milk production systems in India and compare it with dairy developed countries. 15
- (b) Enlist problems in collection and transportation of milk from rural areas to milk plants in India. 15

5. Write short notes on any *three* of the following :

3×10=30

- (a) Balanced Ration
  - (b) Methods of controlling heat stress on the dairy animals
  - (c) Opportunities in dairy farming in India
  - (d) Feeding of animals under drought conditions.
6. (a) Give plans for the establishment of a dairy farm of 100 crossbred cows. 20
- (b) How will you procure the animals for establishment of a dairy farm ? 10
7. (a) Explain the properties of good quality buffalo semen. 10

P.T.O.

- (b) Enumerate abnormalities of sperms. 10
- (c) List steps in deep freezing of semen of bulls. 10
8. (a) Describe symptoms of heat in dairy cows. 10
- (b) How the artificial insemination technology helped in improving the productivity of local cows ? 10
- (c) Enlist causes of poor conception through artificial insemination in cattle and buffaloes in rural areas. 10