HPAS (Main)—2012

ANIMAL HUSBANDRY AND

VETERINARY SCIENCES

Paper II

Time: 3 Hours
Maximum Marks: 150

Note:— Answer any five questions including question no. 6 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) Define Hardy Weinberg Law.

(b) Prove this law.

(c) How does the knowledge of Hardy Weinberg law help in Planning a Breeding Programme?

P.T.O.
2. Differentiate between any three:
   3x10=30
   
   (a) Sex limited and Sex influenced traits
   
   (b) Heritability and Repeatability
   
   (c) General combinability and Specific combinability
   
   (d) Recurrent selection and Reciprocal recurrent selection.

3. (a) What is gene frequency? 10

   (b) What are the factors responsible for change in gene frequency in a population? 10

   (c) How will you introduce a new gene in a population? 10

4. (a) List some of the zoonotic diseases. 10

   (b) Explain in detail one of the zoonotic diseases. 10

   (c) Explain steps in bio-security of a dairy farm. 10
5. (a) Write steps to be taken by Veterinarian in a slaughter house to ensure production of hygienic meat. 

(b) Explain economic utilization of slaughter house by-products.

6. Write short notes on any three of the following:

3 x 10 = 30

(a) Lameness in high yielding cows

(b) Mastitis in high yielding cows

(c) Hemorrhagic septicemia in buffaloes

(d) Naval ill in calves.

7. (a) Explain the methods which can be adopted to educate farmers regarding new technologies in livestock farming.

P.T.O.
8. (a) What is clean milk?  
(b) Write down steps in production of clean milk.  
(c) What are the parameters to measure the quality of milk?