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H.P.A.S. (Main)—2011

ANIMAL HUSBANDRY AND  
VETERINARY SCIENCES

Paper II

Time : 3 Hours

Maximum Marks : 150

Note :— Attempt any five questions including question number 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 others questions.

1. (a) Define Heritability. 10
- (b) Give methods of estimation of Heritability. 10
- (c) How the knowledge of Heritability estimates of a parameter help in planning a Breeding Programme ? 10

P.T.O.

2. Differentiate between any *three* : 3×10=30

- (a) Sex limited and sex influenced traits.
- (b) General combinability and specific combinability.
- (c) Recurrent selection and reciprocal recurrent selection
- (d) Pedigree selection and progeny testing.

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

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

(c) Give bio-security measures to prevent these diseases at an organized farm. 10

4. (a) Write steps to be taken by Veterinarian in a slaughter house to ensure production of hygienic meat. 15

- (b) Explain economic utilization of slaughter house  
bye products. 15
5. (a) What is water pollution law ? 10
- (b) What are water borne diseases in animals ? 10
- (c) Explain in detail the Bacteriological and Virological  
indicators of water pollution. 10
6. Write short notes on the following (any *three*) :  $3 \times 10 = 30$
- (a) Lameness in high yielding cows.
- (b) Foot & Mouth disease.
- (c) Brucellosis in Cows & Buffaloes.
- (d) Hemorrhagic septicemia in buffaloes.

7. (a) Explain the methods which can be adopted to educate farmers regarding new technologies in livestock farming. 15
- (b) What are the problems associated in adequate training of the farmers in India ? 15
8. (a) Give details of vaccination schedule for cattle. 15
- (b) Give details of vaccination schedule for Poultry. 15