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H.P.A.S. (Main)—2013

**ANIMAL HUSBANDRY AND VETERINARY
SCIENCE**

Paper II

Time : 3 Hours

Maximum Marks : 150

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

1. (a) Define selection and name different methods of selection. 10
- (b) Discuss the effectiveness and limitations of each method of selection. 10
- (c) How heterosis is better than inbreeding in keeping good animal health and production ? 10
2. (a) Define heritability. 10
- (b) Discuss any one method used for its estimation. 10
- (c) How are the heritability estimates useful in animal breeding ? 10

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3. (a) What are recent trend in the population of livestock in Himachal Pradesh ? 10
- (b) Describe the state breeding policy with reference to Sheep, Goat and Horses. 10
- (c) Illustrate the methods for conservation of Hill germplasm. 10
4. (a) What are endocrine glands ? 10
- (b) Describe briefly the role of endocrine glands in health and diseases of livestock. 10
- (c) Discuss the general principles of treatment of poisoning in animals. 10
5. Write short notes on any *three* of following :
- (a) Grading up of non-descriptive animals. 10
- (b) Role of veterinarian in Slaughter houses. 10

- (c) Diagnosis and treatment of impaction in ruminants. 10
- (d) Immunization against viral disease. 10
6. (a) What do you mean by water pollution ? 10
- (b) Discuss the strategy for prevention of water borne diseases in animals. 10
- (c) How gaseous pollutants affect animal health and production ? 10
7. (a) Enlist the infectious diseases affecting cattle and equines. 10
- (b) Describe the etiology, clinical finding, treatment and prevention of milk-fever disease in buffaloes. 10
- (c) What is the role of wild animal and birds in zoonotic diseases ? 10

8. (a) Discuss various methods adopted to educate rural farmers in transfer of technology of Animal Husbandry program. 15
- (b) Outline the general measures to be taken to deal with outbreak of contagious diseases in the organized farm. 15