1. (a) Define selection and name different methods of selection.  

(b) Discuss the effectiveness and limitations of each method of selection.  

(c) How heterosis is better than inbreeding in keeping good animal health and production?  

2. (a) Define heritability.  

(b) Discuss any one method used for its estimation.  

(c) How are the heritability estimates useful in animal breeding?
3. (a) What are recent trend in the population of livestock in Himachal Pradesh?

(b) Describe the state breeding policy with reference to Sheep, Goat and Horses.

(c) Illustrate the methods for conservation of Hill germplasm.

4. (a) What are endocrine glands?

(b) Describe briefly the role of endocrine glands in health and diseases of livestock.

(c) Discuss the general principles of treatment of poisoning in animals.

5. Write short notes on any three of following:

(a) Grading up of non-descriptive animals.

(b) Role of veterinarian in Slaughter houses.
(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.

(b) Outline the general measures to be taken to deal with outbreak of contagious diseases in the organized farm.