HPAS (M)-2015

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.

- (a) Define heterosis. List out theories connected
 with heterosis.
 - (b) Discuss the advantage of heterosis and breeding plans to exploit heterosis.
 - (c) What breeding system will you use for exploiting heterosis in broiler production ? 10
- (a) Classify mating system and explain different types of Assortative mating.

P.T.O.

- (b) What do you understand by Nucleus Breeding

 Scheme? Discuss different types of breeding

 schemes and its application in animal

 improvement.
- (c) Describe the different types of cross breeding and its application in animal breeding. 10
- 3. (a) Current livestock breeding policy of India and your state.
 - (b) Write in detail about various methods to estimate the sire index.
 - (c) Discuss in brief the various methods of conservation, their feasibility to hilly breeds of livestock.

A	H	8	V	S	 II

dagleri	SV 2317	(3) AH&VS—II
4.	(a)	Define Blood. Enlist the different constituents of
gari.		it.
/De	(b)	Describe the mechanism of Blood coagulation in
10.4		animals. 10
	(c)	What are endocrine glands? Discuss briefly the
69 211		role of endocrine glands in health and
		diseases.
5.	Write	e short notes on any three of following:
s Plan	(a)	Biochemical tests for urinary dysfunction. 10
	(b)	Hardy-Weinberg law.
	(c)	Rules and regulations for prevention of cruelty
		to animals.
	(1)	Outline the main stone in shottoir inspection

and explain why inspection is important for food 10 safety.

P.T.O.

- Write the general principles associated with use 6. of cytotoxic drugs in animals. 10
 - What is anti-microbial drug resistance? Briefly explain the principle of chemotherapy in microbial infection in the livestock. 10
 - diseases that Discuss the zoonotic (c)transmitted from milk. Enlist the essential steps in hygienic milk production. 10
- Enlist the infectious diseases that affect cattle 7. along with the name of pathogen. 10
 - A group of cattle are suffering from blood **(b)** stained and high fever diarrhoea. Name the disease and describe the etiology, pathogenesis, clinical finding, prevention and treatment of the 10 disease.

- (c) Write three diseases of poultry commonly
 observed in your place and mention their
 preventive measures.
- 8. (a) Classify the extension teaching methods. Discuss the different types of group teaching methods. 10
 - (b) Discuss the various Animal Husbandry

 Development Programmes in brief. 10
 - (c) What is the concept of cooperatives? Discuss the history and role of cooperatives in dairy development in India.