## 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. 10
  - (b) Prove this law.
  - (c) How does the knowledge of Hardy Weinberg law 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)	Heritability and Repeatability		
	(c)	General combinability and Specific combinabil	ity	
	(d)	Recurrent selection and Reciprocal recurre	nt	
	1 21	selection.		
3.	(a)	What is gene frequency?	10	
	(b)	What are the factors responsible for change in ge	ne	
		frequency in a population ?	10	
	(c)	How will you introduce a new gene in	а	
		population ?	10	
4.	(a)	List some of the zoontic diseases.	10	
	(b)	Explain in detail one of the zoontic 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 :

3×10=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.

	(b)	What are the problems associated in adequ	ate
		training of the farmers in India ?	15
8.	(a)	What is clean milk?	10
17	(b)	Write down steps in production of clean milk.	10
	(c)	What are the parameters to measure the qual	ity
		of milk ?	10