This question paper contains 4 printed pages]

H.P.A.S. (Main)-2011

ANIMAL HUSBANDRY AND

VETERINARY SCIENCES

Paper I

Time: 3 Hours Maximum Marks: 150

Note:— Attempt any five questions including question number 1 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. Write short notes on any three of the following :

 $3 \times 10 = 30$

- Balanced ration for high yielding crossbred cows.
- (b) Methods of controlling heat stress on the dairy animals.

	(c)	Opportunities in commercial dairy farming in				
		India.				
	(d)	Feeding of animals under drought conditions.				
2.	(a)	Draw a diagram of the reproductive tract of a				
		cow. 15				
	(b)	Describe functions of each part. 15				
3.	(a)	Describe growth in farm animals. 10				
	(b).	Explain different measures of growth. 10				
	(c)	Explain factors affecting growth in livestock. 10				
1.	Com	ment on the following:				
	(a)	Is pasteurization of milk essential when milk in				
		most part of the country is consumed fresh after				
		properly boiling it. 10				
	(b)	Can capital intensive commercial dairy farms can.				
		compete with small and marginal Dairy farmers				
		with very little cost of milk production 10				

	(c)	India has perpetual shortage of con	ncentra	te, green
		and dry fodder, shall it opt for	high	yielding
		crossbred cows.	700	10
5.	(a)	Explain the term 'Nutrient'.		10
	(b)	List different classes of nutrients	i.	10
	(c)	What are the main functions of	each	nutrient
		class ?		10
6.	(a)	Describe steps in freezing of sen	ien.	10
	(b)	Describe physical and chemical pro-	perties	of good
12		semen.		10
	(c)	List abnormalities of sperms.		. 10
7.	(a)	Describe symptoms of heat in da	iry cow	s. 10
	(b)	How the artificial inseminatio	n tech	nology
		helped in improving the product	tivity (of local
20		cows ?		10
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(c)	Enlist causes of poor conception through griffi						tificial
	insemination	in	cattle	&	buffaloes	in	rural
	areas.						10

- 8. (a) Explain process of milk secretion in udder of cows.
 - (b) Explain the role of hormones in initiation of lactation and let down of milk. 15