Time: 3 Hours

(a)

HPAS (Main)-2016

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

Paper I

Maximum Marks: 100

Note		Answer any five questions.
1.	(a)	Define digestibility. Write down in detail various
1		factors affecting digestibility.
	(b)	Describe the methods adopted for arriving at energy
		and protein requirements for maintenance. 10
2.	(a)	Discuss in detail the nutrient requirement of
		various categories of poultry and explain the various
Lind		methods of feeding in poultry.
	(b)	What is the feed restriction in poultry? Describe

pregnancy and lactation period.

in detail various methods of feed restriction. 10

Describe the development of mammary gland in

cow during prenatal period, birth to conception,

10

(b)	Discuss the effects of climatic variation on growth,
7.07	production and reproduction in animals. 10
4. (a)	Define brooding? Write in detail the method of rearing day old chicks under artificial
	brooding. 10
(b)	Write about the managemental practices in grower
	chicken (9-18 weeks).
5. (a)	Describe the feeding of pregnant and lactating
	mares in terms of nutrient requirements, feeds
	and fodder used and rations composition. 10
(b)	Describe summer management practices on layer
LA Heave	farm.
6. (a)	Define the term pasteurization and describe in detail
	about the techniques generally adopted for
	pasteurization ?
(b)	Describe in detail about the manufacturing process
de he e	of ice-cream and cheddar cheese.

Define 'sensory evaluation' and 'threshold tests' ?

Discuss the different methods used for sensory

evaluation of meat products.

(a)

- (b) How will you detect toxic residues in meat and meat products? Write in detail the steps that can be taken to minimize these residues in meat in Indian scenario.
- 8. (a) Prepare the lay out plan for establishment of Dairy farm for 100 animals with sanitation measures required for clean and safe milk production. 10
 - (b) What do you mean by slaughterhouse by-product?

 Write the different basis of their classification. Give

 two uses of any ten by-products.