

KERALA AGRICULTURAL UNIVERSITY

B.Tech. (Ag. Engg.) 2016 Admission V Semester Final Examination-January 2019

Fape.3104 Agricultural Structures and Environmental Control (2+1)

Marks: 50

		T	ime: 2 hours	
Ι		Fill up the following	(10x1=10)	
	1	In a stall barn, the floor area (in m ²) required for each cow is		
	2	Mangers used in barns should have width ranging from	_	
	3	Bag storage structures are often used to store grains fromto	tonnes.	
	4	Safe grain moisture content for storage is about percent.		
	5	The stored fodder is known as		
		State whether following statements are true or false		
	6	Barbed wire fencing is preferred on dairy farms		
	7	A floor area of 0.36m ² per bird is usually provided.		
	8	Deep litter poultry housing aims at keeping poultry inside a shed all the time.		
	9	In loose housing barn, the cows are housed and milked in the same building.		
	10	The minimum slope which should be provided in the gutter so that there is unrestricted		
		flow of drainage water into manure pit outside the barn is 3.5%.		
П		Write Short notes on any FIVE of the following	(5x2=10)	
	1	Loose Housing Barn		
	2	Farmstead		
	3	Rural Roads		
	4	Silo		
	5	Bag storage structure		
	6	Sources of water supply at farmstead		
	7	Stanchion Barn		
Ш		Answer any FIVE of the following.	(5x4=20)	
	1	What factors should be considered for location of Farmstead?		
	2	What do you understand by fencing? Enlist the types of fencing and Explain Barbed wire		
		fencing with figure.		
	3	Enlist types of silo. Explain pit silo in brief.		
	4	Sources of farmstead water supply.		
	5	What are the storage structures? Explain Bukhari type storage structure with neat figure.		
	6	Physiological reaction of livestock to solar radiation and environmental factors.		
	7	Different components of deep litter poultry system.		

IV Answer any ONE of the following

(1x10=10)

- 1 Importance of aeration during moisture and temperature changes in stored grain.
- What are the requirements of good storage structure? Differentiate between deep bin and shallow bin.
