KERALA AGRICULTURAL UNIVERSITY B.Tech (Agrl.Engg) 2012 Admission VIth Semester Final Examination- June/July 2015

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		Cat. No: Phpt.3205 Title: Agricultural structures and Environmental Control (2+0)	Marks: 80 Time: 3 hours		
I. Fill in the Blanks:			(10x1=10)		
	1.	The extent of area of farmstead varies from% of the	total farm area		
	2.		into for digestion by		
	3.	is the type of barn where cows are housed i	n a vard but milked		
		in batches in a separate parlour.			
	4.	The width of gutter in the stanchion barn is cm			
•	5.	Cage houses (poultry) are generally built in region.			
	6.	The required floor space for each chick in a brooder house is	sa.cm.		
	7.	are the arrangements provided in a poultry house for the birds to sit on when			
		they like.			
	8.	The slump test is performed to measure of the concr	ete.		
		The respiratory demand for oxygen exerted by micro organisms, whi			
		organic matter under aerobic conditions is called			
	10	The common size of bricks made in India is			
£1 \Λ	Iri	to short notes an an ann			
		te short notes on any TEN of the following:	(10x3 = 30)		
	1.	Farm house			
2	2.	BIS – Dairy			
	3.	Soakage pit			
2	4.	Barbed wire fencing			
5	5.	Manger			
. 6	5.	Feed trough			
7	7. *	Rural roads			
8	3.	Pen barn			
9).	Timber – a building material			
1	0.	COD			
1	1.	Service alley.			
1	2.	Sedimentation of food plant waste.			

III. Write short essays on any SIX of the following:

- 1. Briefly explain the construction details of a pit silo.
- 2. Describe the construction of a septic tank with a neat sketch.
- 3. With a diagram, explain the various components of a face-out type stanchion barn.
- 4. Give the construction procedure of a wire floored poultry house with a sketch.
- 5. What are the different roads used for a farmstead? Explain the construction of any one road.
- 6. What are the types of timber that can be used for building construction. Also list the different defects in timber.
- 7^a. Give a detailed account on sheep housing.
- 8. Describe the importance of BOD and COD of flood plant waste during its treatment.

IV. Write an essay on any ONE of the following:

(1x10=10)

- 1. Describe the secondary treatment processes of a food plant waste.
- 2. Design a trench silo for a small farm having the following herd. The silage is fed 170 days in a year at the rate of 3.8 kg per 100kg of animal body weight.

	and the second	- Children
Body wt per animal, kg	Total no. of animals	Rate of feeding per
		100 kg of body wt.
680.	40	4.5
450	50	3.5
500	30	4.0
180	20	3.0.
	450 500	680 40 450 500 500 30

(6x5=30)