KERALA AGRICULTURAL UNIVERSITY

B.Tech (Agrl.Engg.) 2008 Admission VIth Semester Final Examination – July 2011– August 2011

Max. Marks: 80

Time: 3.00 hours

Phpt - 3205 Agricultural Structures and Environmental Control (2+0)

1.	Fill	I in the Blanks:	(10x1=10)	
1	. T	The capacity of a septic tank may be taken as		
2	. T	The type of barn where the cows are housed and milked in the same building is called as		
3.	Th	The average floor area required for hens varies from sq.m		
		The face-out type of barn is preferred for(cows/bullocks).		
5.				
6.		are essential in raising and managi	ng chicks.	
		are required in the laying house to serve as a perch for hens to rest up on.		
		ncrete is low in strength. (te		
		ponds are also called as la		
		hemical composition of lime is	goons opoxidation ponds.	
	VVII	ite short notes on any TEN of the following:	(10x3=30)	
	1.	Solar radiation factor.		
	2.	BIS-poultry	A 100 100 100 100 100 100 100 100 100 10	
	3.	Bore hole latrine.		
	4.	Woven wire fencing.		
	5.	Cow stall (stanchion barn).		
	6.	Water Trough		
	7.	Compost pit		
	8.	Silage		
	9.	Milking parlour		
	10.	BOD		
	11.	Feed alley		
		Filtration of Food plant waste.		

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

(6x5=30)

- 1. Briefly explain about the construction details of a trench silo.
- 2. Describe the construction of a soakage pit with a neat sketch.
- 3. Enumerate the differences between a stall barn and a loose housing barn.
- 4. Give the construction procedure of a deep litter poultry house with a sketch.
- 5. Describe the different layers of a water bound macadam road for a farmstead.
- 6. Give an account of cement, mortar and concrete used for building construction.
- 7. Describe the primary treatment processes of food plant waste.
- Work out the economical diameter and depth of a silo to store sufficient quantity of silage for a herd of 500 dairy cows having an average body weight of 400 kg each. The cows are fed silage for 250 days a year.

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

(1x10=10)

- Describe the various equipments used in a poultry house with sketches wherever necessary.
- 2. Design a septic tank for a family of six members with necessary assumptions.