

KERALA AGRICULTURAL UNIVERSITY

B.Tech (Agrl.Engg) 2011 Admission
VIth Semester Final Examination- June 2014

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 milking room is generally placed about _____m away from the barn.
2. _____ are used for calving, calf rearing and housing sick animals.
3. _____ is a litter material that can be used on the floor of a deep litter poultry house.
4. The face-out type of barn is preferred for _____(cows/bullocks).
5. The average floor area required for hens varies from _____ sq.m.
6. The type of barn where the cows are housed and milked in the same building is called as _____
7. The width of gutter in the stanchion barn is _____ cm
8. _____ is the type of barn where cows are housed in a yard but milked in batches in a separate parlour.
9. The water tight container in which untreated domestic sewage is let into for digestion by bacteria is called _____
10. The extent of area of farmstead varies from _____% of the total farm area.

II. Write short notes on any TEN of the following:

(10x3 = 30)

1. Compost pit
2. Silage
3. Milking parlour
4. BOD
5. Feed alley
6. Filtration of Food plant waste.
7. Rural roads
8. Pen barn
9. Timber – a building material
10. COD
11. Service alley.
12. Sedimentation of food plant waste.

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

(6x5=30)

1. What are the different roads used for a farmstead? Explain the construction of any one road.
2. What are the types of timber that can be used for building construction. Also list the different defects in timber.
3. Give a detailed account on sheep housing.
4. Describe the importance of BOD and COD of flood plant waste during its treatment.
5. Briefly explain about the construction details of a trench silo.
6. Describe the construction of a soakage pit with a neat sketch.
7. Enumerate the differences between a stall barn and a loose housing barn.
8. Give the construction procedure of a deep litter poultry house with a sketch.

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

(1x10=10)

1. 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.