



KERALA AGRICULTURAL UNIVERSITY
B. Tech. (Agrl. Engg.) 2019 Admission
V Semester Final Examination – January 2022

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

Marks: 50
Time: 2 hours

I Fill in the blanks

(10x1=10)

1. The stored fodder is known as -----.
2. Fire bricks are used for -----.
3. In the stall barn, the floor area required per cow is -----.
4. The weight of standard brick should be about ----- kg.
5. Safe grain moisture content for storage is about -----percent.
6. The average size of bull shed is ----- sq.m.
7. The seasoning of timber is done to -----.
8. In loose housing barn the cows are milked in -----.
9. Managers used in barns should have width ranging from -----.
10. The height of farm gate should be ----- m.

II Write short notes on ANY FIVE of the following

(5x2=10)

1. Mangers
2. Stanchion barn
3. Electric fencing
4. Cage houses
5. Soakage pit
6. Fodder silo
7. Farmstead

III Answer ANY FIVE of the following

(5x4=20)

1. Explain milking house system.
2. List out the types of dairy barn.. Explain any one in details.
3. What do you understand by fencing? Enlist the types of fencing and explain barbed wire fencing with figure.
4. Compost pit design
5. Different components of deep litter poultry systems.
6. BOD and COD of food plant waste
7. Enlist types of silo. Explain pit silo in brief.

IV Write an essay on ANY ONE of the following

(1x10=10)

1. Design a litter type poultry house for housing 500 birds.
2. What are the requirements of good storage structure? Differentiate between deep bin and shallow bin.
