



KERALA AGRICULTURAL UNIVERSITY
B.Tech. (Agrl. Engg.) 2018 Admission

V Semester Final Examination-February 2021

Fape.3104

Agricultural Structures and Environmental Control (2+1)

Marks: 50
Time: 2 hours

I Fill up the following

(10x1=10)

1. A bin whose dimensions are such that the plane of rupture meets the grain surface before it strikes the opposite side wall is called _____.
2. To prevent spoilage, silage should be removed at the rate of _____ cm/day
3. The distance between sack to stack in bag is _____ m.
4. Litter depth of _____ cm should provide in deep litter poultry housing.
5. The capacity of Morai type storage structure is about _____ to _____ tonnes.

State whether following statements are true or false

6. Residential buildings should be located near the cattle shed.
7. Trench Silo has trapezoidal cross section.
8. Woven wire fences are used for smaller animals.
9. Rate of silage removal is 50 cm per day.
10. Cage houses are built in colder regions.

II Write Short notes on any FIVE of the following

(5x2=10)

1. Sources of water supply.
2. CAP
3. Deep bin
4. Stanchion barn
5. Septic tank
6. Silo
7. Farmstead

III Answer any FIVE of the following.

(5x4=20)

1. What is farmstead? What factors govern the location of the farmstead? Discuss with suitable reasoning.
2. What is litter type poultry house? What advantage has it got over cage houses?
3. Write a note on Stanchion Barn for dairy animals.
4. What are the storage structures? Explain Morai type storage structure.
5. What are different types of Farm roads? Explain in brief.
6. What are types of composting?
7. What are the sources of farmstead water supply? Describe in brief.

IV Write an essay on any ONE of the following

(1x10=10)

1. What are the storage structures? Explain Bukhari type storage structure with neat figure.
2. Water treatment suitable to rural community.