



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Agri. Engg) 2015 Admission
VI Semester Final Examination-July 2018.

Phpt. 3205

Agricultural Structures and Environmental Control (2+0)

Marks: 50

Time: 2 hours

- I Fill up the following blanks: (10x1=10)**
- 1 The capacity of septic tank for average size family should not be less than cu m
 - 2 The wire used for construction of barbed wire fencing is gauge
 - 3 The height of farm gate should be m
 - 4 The average size of bull shed is sq. m
 - 5 In poultry houses a stopper is used for
 - 6 The full strength of concrete is achieved afterdays
 - 7 Fire bricks are used for
 - 8 In loose housing barn the cows are milked in
 - 9 The dimension of cage house for single bird is m
 - 10 The weight of standard brick should be about kg
- II Write Short notes on any FIVE of the following (5x2=10)**
- 1 List out the classification of wire fencing depending on the type of construction and material used.
 - 2 Soakage pit.
 - 3 List all the poultry equipments.
 - 4 Calculate the quantities of cement, sand and gravel required to prepare 81 ft³ of concrete having 1:3:4 as the proportion of aggregates.
 - 5 Mangers.
 - 6 Electric fencing.
 - 7 Farmstead size and arrangements.
- III Answer any FIVE of the following. (5x4=20)**
- 1 Construction materials used for farm building.
 - 2 BOD and COD of food plant waste.
 - 3 Sheep housing system.
 - 4 Compost pit design.
 - 5 Work out the economical diameter and depth of a silo to store sufficient quantity of silage for a herd of 400 dairy cows having an average body weight of 450 kg each. The cows are fed silage for 200 days a year.
 - 6 Differentiate between loose housing barn and stall barn.
 - 7 List out the types of dairy barn. Explain any one in details.
- IV Write an essay on any ONE of the following (1x10=10)**
- 1 The planning and layout of farmstead.
 - 2 Fundamental requirements and design of poultry house.
