



Iden.2104

KERALA AGRICULTURAL UNIVERSITY  
B.Tech.(Ag. Engg.) 2016 Admission  
III Semester Final Examination-January-2018  
Building Construction and Cost Estimation (2+0)

Marks: 50  
Time: 2 hours  
(10x1=10)

**I State True or False**

- 1 Units of Length is meter
- 2 Specific gravity of mild steel is 3.0
- 3 Hydraulic lime sets slowly as compared to fat lime
- 4 A mortar joint in masonry which is normal to the face of wall is known as Bed joint
- 5 Sapwood is the innermost annular rings around the pith
- 6 Strength of cement concrete primarily depends upon water-cement ratio
- 7 Number of bricks required for one cubic meter of brick masonry is 1000
- 8 Bullet proof glass is made of thick glass sheet sandwiched by a layer of steel
- 9 The vehicle used in case of enamel paints is usually varnish
- 10 The plinth area of a building does not include area of cantilevered porch

**II Write Short notes on any FIVE of the following**

(5x2=10)

- 1 What are different types of stairs
- 2 Describe the specifications of First class Brick required for superstructure.
- 3 Define Salvage Value.
- 4 Define quick setting cement.
- 5 Define Workability of concrete.
- 6 What are the objects of preservation of timber?
- 7 Describe Header bond with neat sketch.

**III Answer any FIVE of the following.**

(5x4=20)

- 1 Define Natural bed of stone and discuss its importance.
- 2 Discuss the operation of preparation of clay for the manufacture of bricks.
- 3 Explain the functions of cement ingredients.
- 4 What are the materials used in making an R.C.C work? Describe in detail.
- 5 Compare G.I. sheets with A.C. sheets.
- 6 Describe the defects which are generally found in painting.
- 7 Describe the schedule of rates and factors affecting the rate of items.

**IV Write an essay on any ONE of the following**

(1x10=10)

- 1 Explain the different methods of taking out estimates?
- 2 Explain in brief the different types of farm structures and write their uses.

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