KERALA AGRICULTURAL UNIVERSITY

B.Tech (Agrl.Engg) 2014 Admission
IInd Semester Final Examination-June/July -2015

Cat. No: Iden.1202   Marks: 50.00

Title: Building Technology (1+1)   Time: 2 hours

I Fill up the blanks   (10 x 1=10)

1. General idea of the whole project at a glance is given by _____ plan

2. A good brick earth should contain about _____ % of Alumina

3. The ingredients of cement concrete are _____

4. The inner annular rings surrounding the pith are known as _____

Write true or False

5. Wrought iron contains very less amount of carbon

6. Fiber glass does not absorb water and is fire proof

7. Supplementary estimate is a detailed estimate prepared when additional works are required

8. Silicious rocks are hard and durable

Define

9. Dressing of stones

10. Water element ratio

II Write short notes on any FIVE questions   (5 x 2=10)

1. Differentiate between quick setting cement and rapid hardening cement

2. Differentiate between hand moulding and machine moulding of bricks

3. Differentiate between coursed rubble masonry and random rubble masonry

4. Mark the details of a Queen post truss in its line sketch

5. Define and explain workability of concrete

6. Draw the flow diagram for mixing of raw materials by wet process for the manufacture of ordinary Portland cement

7. List the qualities of good bricks

III Write short essay on any FIVE questions   (5 x 4=20)

1. Enumerate the properties of aluminum and explain its uses

2. List the precautions to be taken during the placing of concrete

3. Explain the factors affecting the physical properties of steel

4. Briefly explain the varieties of industrial form of timber

5. How many bricks are required for constructing a wall of 1m x 1.5mx0.1m

6. Mention the main properties and uses of glass

7. Draw the plan of stretcher course and header course of one brick wall in English bond

IV Write an essay on any ONE. (1 x 10=10)

1. Explain briefly the tests for determining properties of building stones

2. What is meant by seasoning of timber .Explain the methods of seasoning and mention its advantages and disadvantages

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