

TCE-302

1169

Printed Pages : 4

Paper Code & Roll No. to be filled in your Answer Book

Roll No.

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B. Tech. II Year (III Sem.)

Odd Semester Examination-2015

Building Material & Construction*Time : 3 Hrs.]**[Max. Marks :100***Section-1****UNIT-1****Answer Any Four (4x5=20)**

1. What are the factors influencing the choice of building materials? Also define the term 'Hydraulic Lime'.
2. Write the ingredients/ composition of good brick earth and also enumerate the functions of those ingredients.
3. How can you classify Lime as per the source and various uses. Briefly explain the properties of soil.
4. What do you mean by seasoning of timber? Enumerate the methods of seasoning of timber?
5. Differentiate Asphalt, Bitumen and Tar as per their uses.

UNIT-2

Answer Any Four (4x5=20)

1. What are the various ingredients of the plastics? Also give their relevant advantages for the construction.
2. Write the various constituents of oil paint with their functions.
3. Write a short note on Cement paint and Varnish.
4. State the various characteristics of reinforcing steel. Explain the principle of cold working with neat sketch.
5. What are the different types of Sound insulation techniques. What are the various methods of sound insulation.

Section-2

UNIT- 3

Answer Any Two (2x10=20)

1. Write are the various components of building. Also explain the requirements of those building components.

2. Explain the various components of Stair Case with a neat sketch. Also give the name of various Stair Cases.
3. What do you understand by Upper Floors. Explain the constructional details of upper floors with neat sketches.

UNIT- 4

Answer Any Two (2x10=20)

1. What are the functional requirements for the design and construction of doors and windows? Briefly discuss with the neat sketches: (i) Battened and ledged doors, (ii) Battened, ledged and braced doors.
2. Why the steel window is mostly used window in the buildings. Give 5 reasons. Draw a neat sketch of Steel Window and give the name of various components.
3. Writes note on: (along with figure)
 - (i) Lean to roof
 - (ii) Couple close roof
 - (iii) Mansard roof truss
 - (iv) Couple roof

UNIT-5

Answer Any Two (2x10=20)

- (1) Write down general rules for natural ventilation. Explain in brief various system of mechanical ventilation.
- (2) Explain the terms plastering, painting and distemping along with their advantages.
- (3) How will you prevent the cracks and leaks in the building? Also explain the process of repairing the cracks and leaks.

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