

Code: 13A01304



Max. Marks: 70

B.Tech II Year I Semester (R13) Supplementary Examinations June 2017 BUILDING MATERIALS & CONSTRUCTION

(Civil Engineering)

Time: 3 hours

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PART - A

(Compulsory Question)

- Answer the following: (10 X 02 = 20 Marks)
 - (a) What are the characteristics of good brick?
 - (b) Define seasoning of timber and its purpose.
 - (c) What are the characteristics of a good lime?
 - (d) Draw the flow chart for manufacturing process of cement.
 - (e) Distinguish between paint and distemper.
 - (f) What is meant by 'knotting' in painting work?
 - (g) What are the various types of floors?
 - (h) What is the use of flashings in sloped roof construction?
 - (i) What are requirements of good foundation?
 - (j) What is cavity in walls?

PART - B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

- 2 (a) Explain various quarrying methods of stone along with their importance.
 - (b) Explain the process of burning bricks in Hoffman's kiln with a neat sketch.

OR

- 3 (a) Explain various tests conducted on burnt bricks.
 - (b) What are the characteristics of good timber and its common uses in building industry?

UNIT - II

- 4 (a) List different types of cements. Explain any three.
 - (b) Explain different classification of lime.

OR

- 5 (a) Differentiate between quick lime and slaked lime.
 - (b) What are the oxides present in Portland cement and explain their role.

UNIT - III)

- 6 (a) Explain the general characteristics of the water proofing compounds.
 - (b) What are the composition and properties of distemper? Explain various stages involved in distempering process.

OR

- 7 (a) Mention the different types of varnishes and describe the process of varnishing on wood work.
 - (b) Describe the manufacturing method of tiles and list different types of tiles.

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UNIT - IV

- 8 (a) What do you understand about the lintels and arches and explain them clearly with the help of neat sketches?
 - (b) Explain pitched roof, flat roof and lean to roof with neat sketches.

OR

- 9 (a) What are the requirements of good stairs?
 - (b) Write different types of roof trusses, explain queen post truss with a neat sketch.

UNIT - V

- 10 (a) Explain with the help of sketches various types of foundations.
 - (b) Compare English bond, Flemish bond and double Flemish bond.

OR

- 11 (a) Explain rubble masonry work and its types with the help of neat sketches.
 - (b) Discuss the construction of cavity wall and partition wall in buildings and explain why and where they are adopted.

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