



PAPER ID : 0048

TCE-303

Printed Pages : 2

Paper ID and Roll No. to be filled in your Answer Book

Roll No.

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B. Tech.

(SEM. III) (ODD SEM.) (REG. & BACK) EXAMINATION, 2012-13

BUILDING MATERIALS & CONSTRUCTION

Time : 3 Hours]

[Total Marks : 100

- Note :**
- (1) Attempt all questions.
 - (2) All questions carry equal marks.

- 1** Attempt any four parts of the following : **5×4**
 - (a) Explain the problem of lime bursting in bricks.
 - (b) Explain the Economics of building materials.
 - (c) Discuss the properties and specification of pozzolana for use in Construction.
 - (d) Discuss the advantage and disadvantage of natural and artificial Seasoning.
 - (e) Discuss specification and uses of Tar.
 - (f) Discuss briefly scope of study of engineering material.

- 2** Attempt any four parts of the following : **5×4**
 - (a) Describe briefly the various types of glasses.
 - (b) What are the qualities of good varnishes ?
 - (c) What are the desirable characteristics of reinforcing steel ?
 - (d) What are the sound Insulating materials ? Discuss its properties.

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- (e) Enumerate the properties and uses of Lead.
- (f) State various uses of plastic as a building material.
- 3 Attempt any two parts of the following : **10×2**
- (a) List the various types of Upper floors construction. Discuss briefly any two of them with sketches.
- (b) What is Dampness in buildings ? Discuss its possible causes and its effects on performance of building structures.
- (c) Write short notes on following :
- (i) Cavity wall
- (ii) Dog-legged Stair
- 4 Attempt any two parts of the following : **10×2**
- (a) List the various types of Windows ? Briefly discuss any two of them with sketches.
- (b) Explain the functional efficiency of the building.
- (c) What is Roof ? Define the fundamental types of pitched roof by Sketches.
- 5 Attempt any two parts of the following : **10×2**
- (a) Define the ventilation and also discuss the various factors that affect the ventilation.
- (b) Discuss in brief the principles and methods of building Maintenance.
- (c) Write the short notes on following :
- (i) Water supply system
- (ii) Mechanical lifts.