

Code: EC6T6FE-A, ME6T6FE-B.

III B.Tech - II Semester – Regular Examinations – May 2017

BUILDING MATERIALS AND CONSTRUCTION
(Common for ECE & ME)

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11 x 2 = 22 M

1.

- a) List any four types of common building stones in India with their application.
- b) Write any 4 qualities of a brick to be regarded as “Good Brick”.
- c) State any four market forms of Timber.
- d) How does carbon content effect the ductility property of steel?
- e) List any four market forms of steel used in Construction.
- f) Present the steps to be followed in painting new iron and steel work
- g) What is “pressure grouting”?
- h) Write any four rules for attaining good bonding in brick masonry construction.
- i) Give a brief note on “FALGY” bricks.
- j) Enlist any 4 material used for DPC with their application.

k) Brief on stripping time of form work for various structural elements of RCC buildings.

PART – B

Answer any *THREE* questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Justify the usage of fly ash as substitute to burnt clay bricks. 5 M
- b) Propose the advantages of brick masonry over the stone masonry. 6 M
- c) Present the purpose of any 4 blasting tools 5 M
3. a) Give the comparisons on “Fat lime” Vs. “Hydraulic Lime”. 6 M
- b) Explain the procedure for natural seasoning of Timber along with its merits and demerits. 6 M
- c) Brief on “Thermo Mechanically Treated Bars” (TMT). 4 M
4. a) Write down the objectives and characteristics of an ideal paint. 6 M
- b) “White wash is extensively used for interior wall surface and ceiling of houses” – Discuss the reasons. 5 M

- c) Explain with examples –“Sound Proof/Sound Absorbent Material”. 5 M
5. a) Discuss on the functions of foundations in civil engineering structures. 6 M
- b) Explain the different types of shallow foundations with neat sketches. 6 M
- c) Discuss on the defects in brick masonry, causes and precautions. 4 M
6. a) Present the details of a “King Post Truss” with a neat sketch. 5 M
- b) Explain the method of laying “Tiles Flooring”. 5 M
- c) Discuss the purpose and types of different types of form work & scaffolding materials. 6 M