

Code: CE3T2

II B.Tech-I Semester–Regular Examinations–December 2015

**BUILDING MATERIALS AND CONSTRUCTION
(CIVIL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

PART – A

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

11x 2 = 22 M

- 1 a) Mention any four types of tools used for blasting.
- b) List out the steps involved in the manufacture of bricks.
Explain them in one sentence.
- c) Give the classification of trees.
- d) Mention the properties of mild steel.
- e) What are the various sound insulating materials?
- f) What is varnishing? How it is used?
- g) What are strip and strap footing? Explain with a neat sketch.
- h) What is stone masonry?
- i) Differentiate English Bond and Flemish Bond.
- j) Define underpinning.
- k) What is formwork? Mention the types of formwork.

PART – B

Answer any **THREE** questions. All questions carry equal marks. 3 x 16 = 48 M

- 2 a) What is clamp and kiln burning? Give the comparison between them. 8 M
- b) Explain the process of blasting. Also explain the precautions in blasting. 8 M
- 3 a) Define the structure of a timber? Explain the parts of timber with a neat sketch. 8 M
- b) Explain the manufacturing process of steel by any one process. Explain the factors affecting physical properties of steel. 8 M
- 4 a) What are the factors to be considered in providing sound insulation of a building? 8 M
- b) What is painting? Explain its objectives and characteristics of an ideal paint. 8 M
- 5 a) What is pile foundation? Explain the classification of piles based on materials. 8 M
- b) Explain the Flemish bond for a 1 ½ brick thickness with Plan and Elevation. 8 M
- 6 a) Explain the King post truss with a neat sketch. 8 M
- b) What is dampness? Explain its causes and preventive measures for dampness. 8 M