

II B. Tech I Semester Regular/Supplementary Examinations, Dec - 2015
BUILDING MATERIALS AND CONSTRUCTION
(Civil Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**
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PART -A

1. a) Write different classification of bricks and their uses in brief? (4M)
- b) Short note on teak wood? (3M)
- c) Write Methods of manufacture of lime? (4M)
- d) Write a short note on king post truss? (4M)
- e) What is mean by setting time of cement? (4M)
- f) What is cavity in walls? (3M)

PART -B

2. a) What are the qualities of good building stones? Discuss them? (8M)
- b) Describe the process of blastering? (8M)
3. a) Explain the classification of wood used in buildings in detail? (8M)
- b) Explain about Galvanized Iron, Fiber – Reinforced Plastics (8M)
4. a) Explain any two concrete tests in detail? (8M)
- b) Explain any two laboratory test for cement? (8M)
5. a) Classify various types of lintels and discuss their relative use. (8M)
- b) Write a short note on Arches, Vaults, Stair cases (8M)
6. a) Explain the classification of aggregates? (8M)
- b) Explain about coarse and fine aggregates? (8M)
7. a) Explain in detail about Damp Proofing and water proofing materials? (8M)
- b) Explain about Moisture content of Aggregate (8M)



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PART -A

1. a) Write different classification of stones and their uses in brief? (4M)
- b) Write a short note on cavity wall? (3M)
- c) What are the various uses of lime? (4M)
- d) Write a short note on Queen post truss? (4M)
- e) Write different bonds in brick masonry? (4M)
- f) Write the Precautions in blasting? (3M)

PART -B

2. a) Explain about the materials like Gypsum, Glass? (8M)
- b) Discuss briefly about various methods of manufacturing of Tiles? (8M)
3. Explain in detail about
 - a) Cavity wall
 - b) partition wall (16M)
4. a) What is Lime and what are the various ingredients of lime? (8M)
- b) Explain the methods in manufacturing of lime explain two methods? (8M)
5. Explain with neat sketches about (16M)
 - a) Lean to roof
 - b) Coupled roof
6. a) What are the different types of painting? (8M)
- b) write about vanishes, Form Works (8M)
7. a) Explain the Significance of grades of aggregates? (8M)
- b) Explain different methods of measurement of moisture content of aggregates (8M)



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**PART -A**

1. a) What are the different types of tiles? (4M)
- b) Write short note on defects in timber (3M)
- c) Explain about fineness of Cement? (4M)
- d) Write a short note on Lean to roof? (4M)
- e) Different type of roofs? (4M)
- f) write about Sieve analysis (3M)

**PART -B**

2. a) Explain about the dressing of stones? Draw the sketches of stones neatly? (8M)
- b) Explain the characteristics of good tiles? (8M)
3. a) Explain the difference between English and Flemish bond? (8M)
- b) Explain about Rubble and Ashlar masonry? (8M)
4. a) What are the various ingredients of concrete explain in detail? (8M)
- b) Explain about Setting and Fineness of cement (8M)
5. a) Explain any two types of flooring in detail? (8M)
- b) Draw Neatly King Post Trusses (8M)
6. a) Differentiate between the plastering and pointing (8M)
- b) Explain about distempering, color washing and painting. (8M)
7. a) Explain about the Moisture content of aggregates? (8M)
- b) Explain about the bulking of sand? (8M)



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PART -A

1. a) What are the different types of bricks? (4M)
- b) What are the purposes of partition walls? (3M)
- c) What are the tests in cement? (4M)
- d) Write a short note on Coupled roof? (4M)
- e) What is water proofing? (4M)
- f) Draw coupled roof? (3M)

PART -B

2. a) Explain in detail manufacturing methods of Tiles? (8M)
- b) Explain briefly about manufacturing of bricks. (8M)
3. a) Explain the defects in timber? (8M)
- b) Explain the classification of various types of woods used in buildings? (8M)
4. a) Write short notes on : (8M)
 - i) Hydration of cement
 - ii) Tests in concrete
- b) Explain the chemical composition of cement? (8M)
5. a) What are the different types of roofs explain any two? (8M)
- b) Explain about form work and scaffoldings? (8M)
6. a) Explain the different types of painting? (8M)
- b) Write shorts notes on the following : (8M)
 - i) Plastering
 - ii) White Washing
 - iii) Distempering
7. a) Explain about the (8M)
 - i) Bulking of sand
 - ii) Specific gravity of sand
- b) Explain about Bond and Strength of aggregate (8M)