

Code No: R1621014

**R16****SET - 1**

**II B. Tech I Semester Regular/Supplementary Examinations, October/November - 2018**  
**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 **FOUR** Questions from **Part-B**
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**PART -A**

1. a) Write the Properties of building stones
- b) What are the different types of woods used in buildings
- c) Write the various methods of manufacture of lime
- d) What are the different types of stair cases
- e) What is DPC
- f) Define Specific gravity

**PART -B**

2. a) What are the precautions to be taken while dressing a stone? Explain
- b) Write in detail about the precautions to be taken in blasting
3. a) Write briefly about partition walls with some examples
- b) Discuss the Alternative materials for wood
4. a) Explain the various methods of manufacture of lime
- b) Write the Various types of cement and their properties
5. Draw Queen post truss and mention parts and write the applications
6. a) Explain about Form Works and Scaffoldings
- b) Explain about the sizes Coarse and fine aggregates
7. a) Explain different methods of measurement of moisture content in aggregates
- b) Explain about porosity and absorption in aggregates

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**R16****SET - 2**

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- ~~~~~

**PART -A**

1. a) Write the Uses of Aluminium
- b) Write on Seasoning of timber
- c) What are the Various ingredients used in cement concrete
- d) Write the purpose of vaults
- e) What are the different water proofing materials
- f) Define porosity

**PART -B**

2. a) Explain about the materials Gypsum and Glass?
- b) Discuss briefly about various methods of manufacturing of Tiles?
3. a) Explain about seasoning of Timber
- b) Explain the properties of Timber
4. a) Explain about initial and final tests of cement
- b) Discuss about fineness test
5. a) Explain about flat and curved roof
- b) Draw Coupled Roof.
6. a) Explain about the Constituents of a paint
- b) Explain about Precast concrete partitions
7. a) Explain about particle shape and texture of aggregates
- b) Explain about the Moisture content of Aggregate

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**R16****SET - 3**

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2. Answer **ALL** the question in **Part-A**  
3. Answer any **FOUR** Questions from **Part-B**
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**PART -A**

1. a) Write the purpose of Gypsum
- b) Write on Fiber Reinforced Plastics
- c) Write the laboratory tests for Cement
- d) Write the components of building
- e) Give some materials of DPC?
- f) Write the purpose of Sieve analysis

**PART -B**

2. a) Explain about Bituminous materials
- b) Describe the advantages of Floor tiles and roof tiles.
3. a) Draw English Bond and Flemish Bond?
- b) Write about Ashlar Masonry
4. a) Explain about hydration of concrete
- b) Discuss about heat of hydration
5. a) Draw Lean to roof
- b) Write about different types of floors and explain about concrete flooring in detail
6. a) Explain the different types of painting
- b) Write about vanishes and Form Works
7. a) Explain about Bond and Strength of aggregate
- b) Explain the Significance of grades of aggregates

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**R16****SET - 4**

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Max. Marks: 70

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2. Answer **ALL** the question in **Part-A**  
3. Answer any **FOUR** Questions from **Part-B**
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**PART -A**

1. a) Draw the size of Brick
- b) Draw the conventional sign of wood
- c) Write the laboratory tests for Concrete
- d) What are the different types of paints
- e) What is distempering
- f) Write the different Sieve numbers

**PART -B**

2. a) Explain briefly about manufacturing of bricks.
- b) Classify and describe knots found in timber based on size
3. a) Explain the classification of various types of woods used in buildings?
- b) Explain about brick partitions
4. a) Explain about compressive and tensile strength of concrete with sketch
- b) Explain about water cement ratio
5. Neatly draw King Post Truss and label the parts
6. a) Explain about anticorrosive paints
- b) Explain about color washing
7. a) Explain about the specific gravity test of aggregate with detail procedure
- b) Write about water absorption test in aggregates

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