

SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

ROLL No:

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Total number of pages:[2]

Total number of questions:06

B.Tech. || CE || 3rd Sem

Building Material

Subject Code:BTCE-304A

Paper ID: M/18

Reappears

2015 onwards

Time allowed: 3 Hrs

Max Marks: 60

Important Instructions:

- All questions are compulsory
- Assume any missing data

PART A (2×10)

Q. 1. Short-Answer Questions:

- What are the uses of common building stones of India?
- Name some of the harmful ingredients in brick earth.
- What do you mean by slaking of lime?
- Explain in brief about the properties of cement.
- How batching of materials is done in the preparation of concrete.
- Define workability and strength of concrete.
- Explain about exogenous and endogenous trees.
- Define creep and shrinkage of concrete.
- Differentiate between white and color washing. Also name the ingredients used in color washing.
- What are the uses of different varieties of lime?

PART B (8×5)

Q. 2 Explain about the defects in timber and how would you preserve timber from its deterioration? CO1

OR

How the deterioration of stones happen and by which methods you will preserve them.

CO1

Q. 3. Explain about various tests used for bricks before its use.

CO2

OR

Explain about compressive strength test procedure of cement.

CO2

Q.4 Write the design steps of concrete mix based on ISI method. CO3

OR

How ACI method is different from ISI method for design of concrete mix. CO3

Q.5 Write about the following: CO4

- A. Hard and soft wood
- B. Structure of tree.

OR

Write about the characteristics of timber and types of timber used in construction work. CO4

Q.6 Name the ingredients used in paints and how would you prepare the surface for painting.

OR

CO5

Explain about the following terms used in construction:

- A. Asphalt and Bitumen.
- B. Glass and glass products.

CO5