SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

ROLL No: | | | | | | | | | | | | |

Total number of pages:[2]
Total number of questions:06

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

Building Materials & Construction

Subject Code:BTCE-305

Paper ID:

Time allowed: 3 Hrs **Max Marks: 60**

Important Instructions:

- **All questions are compulsory**

PART A (2×10)

Q. 1. Short-Answer Questions:

(a) What do you meant by slaking of lime?
(b) What is heat of Hydration?
(c) Name the ingredients used in the construction of Bricks?
(d) Differentiate between load bearing and non load bearing walls.
(e) Define the terms workability and name the factors affecting workability.
(f) Why Damp proof course is require in the construction of any structure?
(g) Write about the objectives of plastering.
(h) What are the various fire protection measures required for the safety of a building?
(i) Differentiate between white washing and colour washing?
(j) Classify the types of roof and roof trusses.

PART B (8×5)

Q. 2 What are the various defects of Timber used in construction and how would you prevent them? CO1

OR

What are the characteristics of a good building stone? Also differentiate between natural and Artificial Building stone. CO1

Q. 3. Name the various test to be performed for testing of cement as per BIS and explain any two of them. CO2

OR

Write the Design procedure of Concrete mix as per BIS. CO2

Q. 4. Define the role of foundation in the construction of a building and also describe the causes of failures of a foundation. CO3

OR

How would you classify aggregates and also explain various tests done on aggregates before using them for construction? CO3

Q.5. Explain the following terms used in the building construction or in its maintenance: CO4

(a) Acoustics
(b) Sound insulation

OR

How Plumbing work and Air conditioning is useful while construction or maintaining a building? CO4

Q. 6. Explain the procedure to apply the Damp proof course in construction of building with need sketches. CO4

OR

Write about the properties of concrete also explain the role of water cement ratio in the strength of concrete. CO1