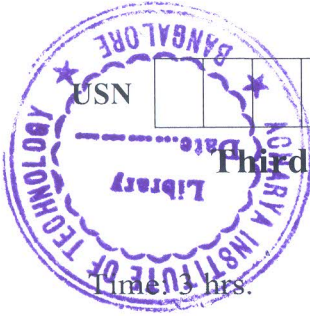


# CBCS SCHEME

17CV36



## Third Semester B.E. Degree Examination, July/August 2021 Building Materials and Construction

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Explain the causes of deterioration of stones and how to prevent it. (08 Marks)  
b. Explain the steps involved in manufacturing of clay bricks. (08 Marks)  
c. List out the requirements of a good brick. (04 Marks)
- 2 a. Explain the different types of Mortar. (06 Marks)  
b. Write the procedure to carry out crushing strength test on coarse aggregate. (06 Marks)  
c. List out different test on bricks and explain compressive strength test on bricks. (08 Marks)
- 3 a. What are the requirements of a good foundation? (04 Marks)  
b. Explain the different types of foundation with sketches. (12 Marks)  
c. Write a note on Cavity wall. (04 Marks)
- 4 a. Briefly explain different types of stone masonry. (08 Marks)  
b. Explain 1½ thick brick wall English bond with a neat sketch. (08 Marks)  
c. Explain joints in Stone masonry. (04 Marks)
- 5 a. Write down the different functions of a lintel and explain types of lintels. (06 Marks)  
b. Write a neat sketch of an arch and explain the terms in an arch. (10 Marks)  
c. Write a note on stability of an arch. (04 Marks)
- 6 a. What are the requirements of a good floor? Explain types of floors. (12 Marks)  
b. With a neat sketch, explain Queen Post Truss. (08 Marks)
- 7 a. Explain Double Leaf paneled door with terms. (10 Marks)  
b. List out different types of windows. (06 Marks)  
c. List out the requirements of a good stairs. (04 Marks)
- 8 a. Explain Dog – legged stair case with plan and elevation sketch. (10 Marks)  
b. Explain Bay Window and Dormer Window. (10 Marks)
- 9 a. What are the purposes of plastering? (04 Marks)  
b. Explain defects in plastering. (08 Marks)  
c. Explain methods of damp proofing. (08 Marks)
- 10 a. Write down the procedure to paint on new wood work and plastered surface. (10 Marks)  
b. Explain any six defects in painting. (06 Marks)  
c. What are the objectives of painting? (04 Marks)

\* \* \* \* \*

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.