



**National Institute of Technology, Kurukshetra**  
**Department of Civil Engineering**  
**Mid Semester Exam- I (Sept 2025)**

**Programme:** B.Tech (Civil Engineering)  
**Semester:** 3<sup>rd</sup>  
**Course:** Building Construction and Materials  
**Note:** Attempt any three questions.

**Section:** CE-A & B  
**Session:** 2025-26  
**Course Code:** CEPC202  
**Max Marks:** 15

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- Q(1a). What are the requirements of a good building stone. (2)
- Q(1b). List out the types of Stone Masonry and Explain Ashlar Masonry with a neat sketch. (3)
- Q(2a). Explain briefly the composition of a good brick earth. (2)
- Q(2b). List the different types of bonds in brick masonry. Explain English Bond with diagram. (3)
- Q(3a). Describe the macrostructure of a timber with neat diagram. (2)
- Q(3b). Define the term "preservation of timber". Name the various types of preservatives and its methods of application. (3)
- Q(4a). Give chemical compositions of Portland Cement along with their functions? Also explain different physical tests on cement. (2)
- Q(4b). Give the classification of Aggregates? Explain in brief, the various tests carried out on Aggregates (3)