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Total No. of Questions : 09

B.Tech. (CE) (Sem.–4)

# BUILDING CONSTRUCTION

Subject Code : CE-206

Paper ID : [A0608]

Time : 3 Hrs.  Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

## SECTION-A

1. Write briefly :

a) Differentiate between rubble and ashlar joints.

b) What are the requirements of a good foundation?

c) What is the significance of bonding in brickwork?

d) List at least four ill effects of dampness in buildings.

e) What is meant by the term 'Lintel'? What are different types of it?

f) What is meant by 'orientation of a building'? How is it important?

g) Compare at least two common roof covering materials based on their thermal insulation and appearance.

h) What are the circumstances in which dome roofs preferred?

i) Distinguish between white washing and distempering.

j) How are building byelaws useful in maintaining quality of life in cities?

## SECTION-B

2. Draw and explain the construction of a 2 brick square column in English and Flemish bonds.
3. Explain the procedure of centering of arches.
4. Explain the terms:

(a) Fire proof construction of buildings

(b) Expansion joints.

5. How do you proceed to paint a metallic surface? Explain the steps.
6. Explain the procedure of fixing of rain water pipes in buildings.

## SECTION-C

7. (a) Explain the requirements of an ideal Damp Proofing Material.

(b) Draw a section of wall showing how damp proofing course is provided in a residential building.

8. A two storyed bungalow with open verandah and flat roof is to be less constructed in Punjab. Briefly describe the type of foundation and superstructure you will propose for the building. How do you decide the thickness of walls?
9. (a) Explain the Fire Proof Construction methods adopted in buildings.

(b) What are the different types of roofs used in buildings? Indicate their suitability.