

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

Paper ID [CE206]

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 4th)

BUILDING CONSTRUCTION (CE - 206)

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

Section - A

Q1)

(10 × 2 = 20)

- a) Suggest the names of suitable building stones having fire resisting characteristics.
- b) Write down the sizes of modular and conventional bricks.
- c) What should be the minimum crushing strength of a good building stone?
- d) Define 'Mansard Roof'.
- e) In the construction of arches, sand box method is used, for which purpose?
- f) What is the function of cleats in a roof truss?
- g) What does 'DS' refers in the designation as '10 DS 20'?
- h) What do you understand by the term 'Dormer Window'?
- i) Enumerate the sources of dampness in buildings.
- j) Define the term 'Pointing'.

Section - B

(4 × 5 = 20)

- Q2) Draw a typical sketch for simple square footing of an R.C.C column.
- Q3) Explain various types of joints used in ashlar stone masonry with help of sketches.
- Q4) What do you understand by slenderness ratio of wall? How it can be determined?

Q5) Distinguish clearly between a lintel and an arch.

Q6) Define the following terms:

Pitch, Hip, Eaves, cleat, Common Rafter.

Section - C

(2 × 10 = 20)

Q7) Explain Battened, Ledged, Braced and Framed door with the help of neat sketches.

Q8) How do you determine the absorption units of a cinema theatre/auditorium. Explain.

Q9) Write short notes on the following.

(a) Pointing

(b) Construction Joints.