

Roll No.

Total No. of Questions : 09]

Paper ID [CE205]

[Total No. of Pages : 02

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Semester - 3rd)

BUILDING MATERIAL (CE - 205)

Time : 03 Hours

Maximum Marks : 60

Instructions 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) What are artificial stones?
- b) What are varieties of fire bricks and explain any one in brief?
- c) Write briefly about slaking of lime.
- d) Write atleast six types of cements.
- e) What is curing of concrete?
- f) What are exogenous trees?
- g) What is residual asphalt?
- h) Write any six properties of glass.
- i) Write ingredients of a paint (explain briefly).
- j) Explain Creep and shrinkage of concrete.

Section - B

(4 × 5 = 20)

- Q2) Distinguish between painting and varnishing.
- Q3) Enlist atleast 8 types of common building stones in India and write their uses.
- Q4) Explain briefly manufacturing of cement.
- Q5) What is distemping? Write five properties of distempers.
- Q6) What is water-cement ratio? Explain in detail.

Section - C

(2 × 10 = 20)

- Q7) Explain various steps to design Concrete Mix by ACI method.
- Q8) Write in detail about various types of defects in timber. (Give neat sketches also).
- Q9) Explain in detail "Production of Concrete".

