

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CE)/(CIVIL) (PIT) (Sem.-4)
MATERIALS, TESTING AND EVALUATION

Subject Code : BTCE-402-18

M.Code : 77645

Date of Examination : 05-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS 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 have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly/Fill in the blanks :

- a) What is the effect of creep in concrete?
- b) What are the two major groups of plastic?
- c) What code is used for the practice and guideline of bitumen?
- d) Name commercial forms of ferrous metals.
- e) Write drawbacks of electrical seasoning of timber.
- f) Explain spray painting is superior to painting by brushes.
- g) What are the properties of distempers?
- h) Write a short note on geosynthetics.
- i) Fly ash is a..... Material.
- j) Efflorescence of bricks is due to

SECTION-B

2. Write the latest amendments of IS-456-2000 in detail?
3. Explain the concept of quality control of concrete at site? How it can be achieved.
4. Explain different types of glass with their application in building.
5. Explain in brief the various tests used for Non-Destructive testing?
6. What are types of tests for soil? Explain briefly any one with procedure, data, collection and results.

SECTION-C

7. Explain the seasoning process of timber and defects of timber.
8. What are the codes of practice and guidelines for cement?
9. What is importance of structural steel? Write its characteristics and mechanical behavior.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.