

Total No. of Questions – [8]

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G.R. No.

Paper code - U219-116 (BE-F&FS)

DECEMBER 2019/ENDSEM - Backlog Exam.

S. Y. B. TECH. (CIVIL ENGINEERING) (SEMESTER - I)

COURSE NAME: BUILDING MATERIALS AND CONSTRUCTION

COURSE CODE: CVUA21176

(PATTERN 2017)

Time: [2 Hours]

[Max. Marks: 50]

(*) Instructions to candidates:

- 1) Answer Q.1, Q.2, Q.3, Q.4, Q.5 OR Q.6, Q.7 OR Q.8
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

Q.1) a) Discuss the causes of failure of foundations [6 marks]

OR

b) Enlist any 4 methods of Damp proofing. Identify the effects of dampness in basement [6 marks]

Q.2) a) State necessity of curing concrete works. Explain any two methods in details. [6 marks]

OR

b) What is form work? Enlist the precautions to be taken for form work of concrete [6 marks]

Q.3) a) Explain varieties of floor finishes and their suitability [6 marks]

OR

b) Define the following terms in relation to pitched roof

- | | | |
|--------------------|----------------|-------------|
| a. Pitch of a roof | b. Ridge | c. Boarding |
| d. Post plate | e. Hip Rafters | f. Eaves |
- [6 marks]

Q.4) a) Explain Pivoted window with a neat sketch. [4 marks]

OR

b) Draw neat figures of any two types of arches. [4 marks]

Q. 5) a) Enlist any 4 types of staircases. Draw a neat figure of dog legged staircase. [6 marks]

b) State the Procedure for wall painting [4 marks]

c) Explain White Washing? List its advantages and limitations" [4 marks]

OR

Q.6) a) Explain the suitability of Distemper and oil painting. [6 marks]

- b) Compare Ramps and Escalators [4 marks]
c) State the objectives of wall papering [4 marks]
Q.7) a) Explain the precautions to be taken for safety of workers on site. [6 marks]
b) Discuss the properties of aluminum used in construction [4 marks]
c) Discuss the applications of 3D printing in construction [4 marks]

OR

- Q.8) a) Discuss the properties of following materials in construction: Lime, polymer, gypsum, clay tiles, aluminum, plastic. [6 marks]
b) Explain Repairs and maintenance in construction [4 marks]
c) Explain effect of bad plumbing. [4 marks]

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