

Total No. of Questions – [8]

Total No. of Printed Pages 2

G.R. No.	
----------	--

Paper code - U218-116 (BE-FS)

MAY 2019/ENDSEM

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) State the condition suitable for the following types of foundation:
a. Raft foundation b. Under ream pile c. Well foundation d. Strap foundation
e. Combined footing f. Cantilever foundation [6 marks]

OR

- b) Enlist any 4 methods of Damp proofing. Explain any two in detail [6 marks]

- Q.2) a) State the types of structures where these blocks are used: hollow blocks, solid blocks and cellular light weight concrete blocks. [6 marks]

OR

- b) Discuss the requirements of a good formwork [6 marks]

- Q.3) a) State relative merits and demerits of concrete floor [6 marks]

OR

- b) Discuss the suitability of following types of flooring for different building
- | | |
|--------------------|-----------------------------|
| a. Mosaic flooring | b. Rubber and cork flooring |
| c. Tiled flooring | d. Glass flooring |
| e. Muram flooring | f. Brick flooring |
- [6 marks]

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

OR

- b) Write a note on "Types of Arches with reference to the materials used in the same". [4 marks]

Q. 5) a) Enlist any 4 types of staircases. Explain Bifurcated stairs with a neat figure.

[6 marks]

b) Write the objectives of Plastering.

[4 marks]

c) Explain White Washing? List its advantages and limitations"

[4 marks]

OR

Q.6) a) Draw neat sketches of various types of pointing

[6 marks]

b) Compare Ramps and Lifts.

[4 marks]

c) State the objectives of Wall Papering

[4 marks]

Q.7) a) Explain the precautions to be taken for storage of materials on site

[6 marks]

b) What are Eco friendly materials? Enlist atleast 4 types of ecofriendly materials used in construction

[4 marks]

c) What are the advantages and disadvantages of Aluminum panel cladding?

[4 marks]

OR

Q.8) a) Write a note on Types of Glass and their properties used in construction

[6 marks]

b) What are the remedial measures to avoid bad plumbing?

[4 marks]

c) Explain Addition and alteration

[4 marks]
