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G.R. No.	
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U218-116(T1)

OCTOBER 2018/ IN-SEM (T1)
S. Y. B. TECH. (CIVIL) (SEMESTER - I)

COURSE NAME: BUILDING MATERIALS AND CONSTRUCTION

COURSE CODE: CVUA21176

(PATTERN 2017)

Time: [1 Hour]

[Max. Marks: 30]

(*) Instructions to candidates:

- 1) Answer Q.1 OR Q.2 and Q.3 OR Q.4.
- 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) It is proposed to construct a residential building on black cotton soil. Which type of foundation is suitable in such condition? Comment with reasons.

[6 marks]

b) Classify various types of stone masonry. Draw typical sketches to illustrate the same.

[6 marks]

c) Sketch a line diagrams of any four types of shallow foundations

[4 marks]

OR

Q.2) a) Discuss the properties of a good brick used in construction

[6 marks]

b) Explain the Ashlar chamfered masonry with a neat sketch

[6 marks]

c) Explain the necessity of plinth in residential building

[4 marks]

Q.3) a) State the advantages of Cavity wall

[6 marks]

b) Describe ponding method of curing

[4 marks]

c) Identify the advantages of precast concrete

[4 marks]

OR

Q.4) a) Enlist methods of curing concrete. Explain any two in detail

[6 marks]

b) What are the advantages of light weight concrete blocks?

[4 marks]

c) Why is formwork necessary?

[4 marks]