

B.Tech. SEM -II Civil 2014 Course (CBCS) : SUMMER - 2019

SUBJECT : BUILDING CONSTRUCTION

Day : Friday
Date : 31/05/2019

S-2019-2540

Time : 10.00 AM TO 01.00 PM
Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

- Q. 1** a) List the components of buildings and state function of each. (05)
b) Describe Raft foundation. (05)

OR

- a) State the characteristics of good building stone. (05)
- b) Distinguish between English bond and Flemish bond. (05)

- Q. 2** a) Write a note on working of lift for vertical circulation. (05)
b) Explain with sketch a flush door. (05)

OR

- a) Explain with sketch open well staircase. (05)
- b) What are the various types of windows? (05)

- Q. 3** a) What is 'Precast flooring'? (05)
b) Explain with neat sketch 'flat arch'. (05)

OR

- a) Discuss the factors to be considered while selecting a type of flooring material. (05)
- b) Explain 'Stability of arches'. (05)

- Q. 4** a) Explain rain water drainage system for a sloping roof. (05)
b) Describe 'False ceiling'. (05)

OR

- a) Explain the types of steel trusses for different spans. (05)
- b) Describe 'Queen Post Roof Truss' with line diagram. (05)

- Q. 5** a) Differentiate between internal and external plaster for buildings. (05)
b) Describe a procedure a water proofing of a bathroom. (05)

OR

- a) Describe the various types of wall cladding materials. (05)
- b) What are the defects in plastering? (05)

- Q. 6** a) Explain segmental arch with neat and labeled sketch. (05)
b) What is Ferrocete? (05)

OR

- a) What are various materials used for formwork? (05)
- b) What is Nanoconcrete? (05)