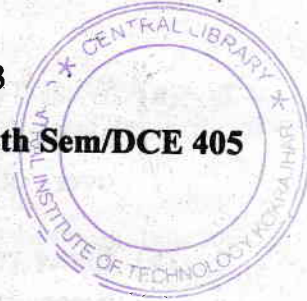


Total Number of printed pages = 3

19/4th Sem/DCE 405



2022

## BUILDING CONSTRUCTION

Full Marks - 100

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer any *five* questions.

1. (a) Discuss various functions served by foundations. What are the requirements of a good foundation? 5+3=8
- (b) Explain with the help of sketches, trapezoidal combined footing and strap footing. 3+3=6
- (c) Write short notes on: 6
  - (i) Pile foundation
  - (ii) Pier foundation and
  - (iii) Caisson foundation.

[Turn over

2. (a) What do you understand by modular bricks? Why brick masonry is preferred over other types of masonry? 2+3=5

(b) Show with the help of sketches various types of closer bricks and bricks bats.

10

(c) Differentiate and compare English bond and Flemish bond. 5

3. (a) What do you understand by scaffolding? What are the component parts of a scaffold? 5

(b) What are the requirements of a good formwork? Describe Indian Standard specifications for Stripping time of formwork. 3+3=6

(c) What are the points that should be kept in mind while locating doors and windows? How are the sizes of doors and windows fixed? 4+5=9

4. Classify various types of lintels and discuss their relative use. Distinguish clearly between a lintel and an arch. 15+5=20