

- Q.19 A column is carrying an axial load of 80 kN. If the area of the column cross-section is 400 cm<sup>2</sup>, calculate the stress on the column
- Q.20 Write any four advantages of reinforced concrete beams.
- Q.21 What is a one-way slab? Where is it used?
- Q.22 Explain any two properties of good reinforcing steel.

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)
- Q.23 What are the functions of a column in a building? Describe two types of columns and where they are used.
- Q.24 What is the role of reinforcement and water in concrete?
- Q.25 Explain the types of foundations with neat sketches.

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**6th Sem / Architectural, Architectural ( For Speech and Hearing Impaired)**  
**Subject : Structure Systems - II**

Time : 3 Hrs.

M.M. : 60

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 RCC stands for:
- Ready Cement Concrete
  - Rapid Cement Concrete
  - Reinforced Cement Concrete
  - Reduced Cement Concrete
- Q.2 The material commonly used for reinforcement in RCC is:
- Copper
  - Steel
  - Aluminum
  - Plastic
- Q.3 One-Way slab is supported on:
- All four sides equally
  - Only one side

c) Two opposite sides only

d) None of the above

Q.4 Shallow foundations are used when:

a) Hard strata is very deep

b) Load is light and strata is near the surface

c) Load is very heavy

d) None of these

Q.5 Flexural analysis is related to:

a) Cloumns

b) Footings

c) Beams

d) Roof

Q.6 HYSD bars are used because:

a) They are cheaper

b) They have high strength

c) They look good

d) They are plastic coated

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 RCC is a combination of \_\_\_\_\_ and \_\_\_\_\_

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Q.8 The function of foundation is to transfer load to the \_\_\_\_\_.

Q.9 A column mainly carries \_\_\_\_\_ load.

Q.10 Two-way slabs are supported on \_\_\_\_\_ sides.

Q.11 TMT stands for \_\_\_\_\_

Q.12 The material used to reinforce concrete is usually \_\_\_\_\_.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Define RCC. Why is it used in construction?

Q.14 What are the physical properties of HYSD bars? (Any four)

Q.15 Write any four differences between shallow and deep foundation.

Q.16 Explain any two foundation construction techniques.

Q.17 Define column. What is the role of columns in a structure.

Q.18 Name different types of columns based on loading conditions.

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