Module-3

- Design a false ceiling for a passage of size 6.0m×2.7m showing the following details: 5
 - Reflected ceiling plan to a scale of (1:20)

(05 Marks)

15ARC72

(15 Marks)

(05 Marks)

(10 Marks)

(10 Marks)

(15 Marks)

(05 Marks)

(10 Marks)

(05 Marks)

(05 Marks)

Max. Marks: 100

Cross section to a scale of (1:10) b.

(10 Marks)

Any one detail to a scale of (1:5)

(05 Marks)

What are the advantages and disadvantages of prestressed concrete? 6

(10 Marks)

Define Post Tensioned concrete. Explain the principle behind Post Tensioned concrete.

(10 Marks)

Module-4

Explain with neat sketches, different types of raft foundations. 7

(10 Marks)

Write short notes on precast piles and mechanically stabilized earth walls.

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OR

- Describe classification of piles based on materials. Draw neat sketches. (10 Marks) 8
 - Write short notes on different types of raft foundations.

(10 Marks)

Module-5

- What are the advantages of prefabrication system in the construction industry? (10 Marks) 9
 - Explain the relevance of 3D printing as an advanced method of building construction. b.

(10 Marks)

- Design a room of size 3.3m×3.3m using bamboo. 10 Draw the following details:
 - Section through the room scale (1: 20).

(05 Marks) Roof details, scale (1:10).

Wall panel detail to a scale of (1:10)

(05 Marks)

(10 Marks)

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