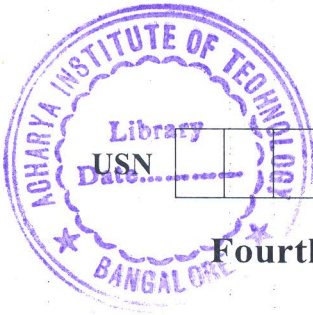


CBCS SCHEME



17CT45

Fourth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Building Construction

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What are the requirements of good foundation? (05 Marks)
- b. Classify the different types of piles based on its function. (05 Marks)
- c. What are the different types of foundation used in black cotton soil? (10 Marks)

OR

- 2 a. Define bearing capacity of soil and explain the procedure to find safe bearing capacity by plate load test. (10 Marks)
- b. Classify shallow foundations with neat sketches. (10 Marks)

Module-2

- 3 a. With a neat sketches discuss the main features of English and Flemish bond in brick masonry. (10 Marks)
- b. Explain with neat sketches:
 - i) Coursed rubble masonry
 - ii) Uncoursed rubble masonry
 - iii) Random rubble masonry
 - iv) Ashlar masonry. (10 Marks)

OR

- 4 a. Write a note on: i) Reinforce brickwork ii) Damp proof construction. (10 Marks)
- b. Classify arches with respect to the shape and explain any one with a neat sketch. (10 Marks)

Module-3

- 5 a. Explain the functions of canopy, balcony, chejja and lintel with the neat sketches. (10 Marks)
- b. What are the requirements of good roof and mention the advantages and disadvantages of RCC flat roof? (10 Marks)

OR

- 6 a. Define the technical terms: i) Fight ii) Landing iii) Soffit iv) Newel post v) Balustrade with the neat sketch of stair. (10 Marks)
- b. List the i) Requirements of good stair ii) Different types of stairs and explain any one briefly. (10 Marks)

Module-4

- 7 a. What are the types of floors? Explain any two of them briefly. (10 Marks)
b. What are the different defects that arise in plaster work? (10 Marks)

OR

- 8 a. List the objects and explain any two materials in plastering. (10 Marks)
b. What are the defects and remedies for minimizing defects in plastering work. (10 Marks)

Module-5

- 9 a. What are the requirements of good formwork and explain slip forming with advantages. (10 Marks)
b. Why formwork is necessary? Explain shuttering detail of a RCC beam and floor. (10 Marks)

OR

- 10 a. Write a brief note on cost effective building materials. (10 Marks)
b. What are the characteristics of a good paint? Explain the methods of painting on new wood surfaces. (10 Marks)
