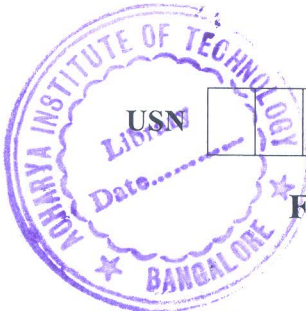


CBCS SCHEME



17CT562

Fifth Semester B.E. Degree Examination, Aug./Sept.2020 Special Concrete

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. List different types of special concrete and mention the application of any four types of special concrete. (12 Marks)
- b. Write a note on the importance of special concrete in concrete technology. (08 Marks)

OR

- 2 a. Define fibre reinforced concrete. Explain the types of fibres used in fibre reinforced concrete. (12 Marks)
- b. Explain the properties of fiber concrete in fresh state. (08 Marks)

Module-2

- 3 a. Define High density concrete. Explain briefly the methods of placement of high density concrete and its application. (12 Marks)
- b. Explain the properties of High density concrete in wet and hardened state. (08 Marks)

OR

- 4 a. Explain the various tests on self compacting concrete with sketches if required. (12 Marks)
- b. What are the properties and applications of self compacting concrete? (08 Marks)

Module-3

- 5 a. Explain the three types of light weight concrete based in the method of making. (12 Marks)
- b. Write a note on different types of light weight aggregates used in LWC with examples. (08 Marks)

OR

- 6 a. Define polymer concrete mention the application of polymer impregnated concrete. (08 Marks)
- b. Write a note on types of polymer concrete. (12 Marks)

Module-4

- 7 a. Define high strength concrete. Explain the methods of making HSC. (10 Marks)
- b. What is the significance of HSC? Give any six applications of HSC. (10 Marks)

OR

- 8 a. Define ultra HSC. What are its applications? (08 Marks)
- b. Write a note on materials used in ultra HSC. Also mention the methods of manufacturing HSC. (12 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

Module-5

- 9 a. Define high performance concrete. Explain the significance in special concrete technology. (12 Marks)
b. Give advantages and disadvantages of HPC. (08 Marks)

OR

- 10 Write a short note on :
a. Materials used in HPC
b. Methods of making HPC
c. Mix design criteria of HPC
c. Applications of HPC (20 Marks)

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