



CBCS SCHEME

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17CT74

Seventh Semester B.E. Degree Examination, Jan./Feb. 2021 Construction Method and Equipment

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Write a note on classification of construction equipments. (10 Marks)
b. List out various factors to be considered in selection of construction equipments. (10 Marks)

OR

- 2 a. Write a note on classification of bulldozers. (10 Marks)
b. Enlist various factors affecting the output of power shovel and the methods of improving the same. (10 Marks)

Module-2

- 3 a. Write a short note on: i) Owning cost ii) Construction economy (10 Marks)
b. Classify Trenching equipments and factors to be considered for trench safety. (10 Marks)

OR

- 4 a. List various factors affecting selection of drilling equipments and explain. (10 Marks)
b. Define scrapers. Explain working mechanism of scrapers. (10 Marks)

Module-3

- 5 a. With a neat sketch, explain working process of drag line. (10 Marks)
b. Write a note on tractors. (10 Marks)

OR

- 6 a. Write a note on types of explosive. (10 Marks)
b. Write a note on: i) Dredging equipment ii) Working principle of clamshell. (10 Marks)

Module-4

- 7 a. List out various types of compaction equipment and explain any two in brief. (10 Marks)
b. What is foundation grouting? Explain materials used for grouting. (10 Marks)

OR

- 8 a. List out the factors affecting the selection of pump. (10 Marks)
b. With a neat sketch, explain centrifugal pump in brief. (10 Marks)

Module-5

- 9 a. Write a short note on Trenchless technology with advantages. (10 Marks)
b. Explain box pushing technology. (10 Marks)

OR

10 Write a short notes on:

- a. Pipe Bursting
b. Pipe Jacking
c. Micro Tunneling
d. Molting Technology.

(20 Marks)

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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.