



# CBGS SCHEME

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15CT74

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

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. Define Construction economy. (06 Marks)  
b. What is construction planning? What are the important? (10 Marks)

OR

- 2 a. List the selection of construction equipment. (04 Marks)  
b. Write a short note on depreciation analysis. (05 Marks)  
c. What do you mean by lost control of equipment? (07 Marks)

### Module-2

- 3 a. What are the types of earth work equipment? (04 Marks)  
b. With a neat sketch, explain Tractors and its operation. (12 Marks)

OR

- 4 a. With a neat explain drag line and its operation. (08 Marks)  
b. What are the factor affecting the output of power shovel? (08 Marks)

### Module-3

- 5 a. List out the classification of dredging. (05 Marks)  
b. What are the aspect for construction of tunnel? (05 Marks)  
c. Define Blasting. Explain the operation of Blasting. (06 Marks)

OR

- 6 a. What is Trenching? List and explain the types of trenching. (08 Marks)  
b. What are the factor affecting the selection of drilling equipment and explain it. (08 Marks)

### Module-4

- 7 a. Define compaction. What are the types of compacting equipment used for the compaction? (07 Marks)  
b. What do you mean by foundation grouting? What are the materials used for grouting? (09 Marks)

OR

- 8 a. Define dewatering. List the types of dewatering explain any one. (08 Marks)  
b. What are the factors in selecting the construction of pump and its classification? (08 Marks)

### Module-5

- 9 Define trenchless technology. Explain box pushing technology. (16 Marks)

OR

- 10 Write a short note on:  
a. Micro tunneling  
b. Cured In Place Pipe (CIPP)  
c. Pipe Bursting  
d. Pipe Jacking (16 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.