

5E1341

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B. Tech. V - Sem. (Main / Back) Exam., Feb.-March - 2021

ESC Civil Engineering

SCE3 - 01 Construction Technology & Equipment's

Time: 2 Hours

[To be converted as per scheme]

Max. Marks: 65

Min. Marks: 23

Instructions to Candidates:

Attempt all five questions from Part A, four questions out of six questions from Part B and one questions out of three from Part C.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used /calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL

2. NIL

PART - A

(Answer should be given up to 25 words only)

[5×2=10]

All questions are compulsory

- Q.1 Write the scope of construction technology. [2]
- Q.2 Explain the breakeven point analysis. [2]
- Q.3 Write the safety measures in demolition of buildings. [2]
- Q.4 What are the objectives of material management? [2]
- Q.5 How can scrapers help in increasing speed of construction? [2]

PART – B

(Analytical/Problem solving questions)

[4×10=40]

Attempt any four questions

- Q.1 Explain the minimum cost point analysis. [10]
Q.2 Describe the depreciation and depletion. ✓ [10]
Q.3 What are the causes of an accident? How the accidents can be classified? ✓ [10]
Q.4 How the construction schedule is prepared? [10]
Q.5 Describe the quality control measures in construction. [10]
Q.6 What are the various forms of earth movers? What are the major earth moving operations? [10]

PART – C

(Descriptive/Analytical/Problem Solving/Design Questions)

[1×15=15]

Attempt any one questions

- Q.1 (a) What are the safety measures for storage and handling of building materials? [8]
(b) Describe the various stages in construction. [7]
Q.2 (a) Describe the principles of engineering economy. [7]
(b) What are the basic functions of material management? [8]
Q.3 (a) What is pile driving? Explain the various equipments for pile driving. [8]
(b) Describe the different equipments used for tunneling. [7]

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