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Roll No.

320744(20)

**B. E. (Seventh Semester) Examination,
April-May 2021
(New Scheme)**

(Civil Engg. Branch)

CONSTRUCTION EQUIPMENTS and TECHNIQUES

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) from each question is compulsory. Answer any two parts out of (b), (c) and (d) of each question.

Unit-I

1. (a) What is Grouting?

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- (b) Differentiate between Graders and Scrapers. Explain them with neat sketches. 7
- (c) Write short notes on : 7
- (i) Fork lifts
- (ii) Concrete by aerial transporting
- (d) What are fundamental of earthwork operations? Describe earth moving operations. 7

Unit-II

2. (a) What do you mean by Concrete Pump? 2
- (b) Describe batching process through R.M.P. 7
- (c) Give short notes on : 7
- (i) Feeders
- (ii) Ready mix concrete
- (d) What is Surge Piles? Why surge enhance production of aggregates? 7

Unit-III

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3. (a) What is Mud Jacking? 2
- (b) Describe any two methods of Piling. 7
- (c) Describe tunnelling techniques. Classify tunnel in brief. 7
- (d) Give short notes on : 7
- (i) Screw and Fastners
- (ii) Water Proofing

Unit-IV

4. (a) Define Sub and Super structure. 2
- (b) Describe technique of high rise buildings. 7
- (c) Give short notes on : 7
- (i) Operation of offshore system
- (ii) Paving technology
- (d) Describe in detail the process of vacuum dewatering of concrete floors. 7

Unit-V

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5. (a) What is Screw Anchors? 2
- (b) Discuss the techniques of demolition of a structure. 7
- (c) Discuss in brief micropiling for strengthening floor. 7
- (d) Give short notes on : 7
- (i) Under Pinning
 - (ii) Subgrade water proofing