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Roll No. :

320744(20)

**B. E. (Seventh Semester) Examination,
Nov.-Dec. 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. All questions carry equal marks. Part (a) is compulsory is of 2 marks. Attempt any two from (b), (c) and (d) carrying (7) marks each.

Unit-I

1. (a) Define mass diagram.

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- (b) Give difference between grader & scrapers. Explain with neat sketches. 7
- (c) Give short notes : 7
- (i) Pile driving equipment
- (ii) Hauling equipment
- (d) Explain the types of conveyors. 7

Unit-II

2. (a) What are the stages involved in aggregate production? 2
- (b) Explain various types of crushers in brief. 7
- (c) Give short notes : 7
- (i) Concrete pumps
- (ii) Ready mix concrete
- (d) Give short notes : 7
- (i) Feeders
- (ii) Screening equipments

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Unit-III

3. (a) Define sheet piles. 2
- (b) Write short note on Caission sinking. 7
- (c) Explain the process of grouting. 7
- (d) Describe tunnelling techniques. Classify tunnel in brief. 7

Unit-IV

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

Unit-V

5. (a) What is Screw Anchors? 2

- (b) Describe Mud Jacking Process. 7
- (c) Give short notes on : 7
- (i) Modern sequence in demolition and dismantling
 - (ii) Water proofing
- (d) Explain pipeline conveyors used in pipeline laying construction. 7