

320744(20)

B. E. (Seventh Semester) Examination, April-May 2020/

(New Scheme)

NOV-DEC 2020

(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 are the types of pump used in construction? 2
- (b) Describe the grouting equipment and their application. 7

[2]

- (c) Write a note on the blasting equipments. 7
- (d) What is Conveyor? Explain the types of conveyor.

Unit-II

2. (a) Define batching. 2
- (b) Write short notes on screening equipments? 7
- (c) Explain the following : 7
- (i) Surge piles
- (ii) Washer
- (d) Explain the types of transporting equipments used in concrete industries. 7

Unit-III

3. (a) What is Caission and their types? 2
- (b) Describe in brief pipe jacking system. 7
- (c) What is Cofferdam? Explain its any one method of construction with sketches. 7

[3]

- (d) Write note on : 7
- (a) Well point system
- (b) Grouting material

Unit-IV

4. (a) What is erection technique? 2
- (b) Explain vacuum dewatering system, and its advantages? 7
- (c) Explain about the techniques on aerial transportation system. 7
- (d) Write about the rigging of transmission line structure. 7

Unit-V

5. (a) Define mud jacking. 2
- (b) Describe sub-grade wall proofing and its procedure. 7
- (c) What is under pinning? Explain about the advanced techniques of under piping. 7
- (d) Write a note on pipe laying protecting sheet piles. 7