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Roll No.

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320744(20)

B. E. (Seventh Semester) Examination,

Nov.-Dec. 2018

(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. Provide neat sketches wherever necessary.

Unit-I

- 1. (a) Define forktofts. 2
- (b) Describe tunneling in detail. 7

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- (c) Enumerate earth moving equipments and explain in detail. 7

- (d) Write shot notes on following : (any three) 7

- (i) Conveyors
- (ii) Hauling equipments
- (iii) Pumps
- (iv) Pile driving equipments

Unit-II

- 2. (a) Define reduction ratio. 2
- (b) Explain various types of crushers in brief. 7
- (c) Describe batching process through R.M.P. 7
- (d) Write short notes on following : 7
 - (i) Feeders
 - (ii) Pouring mechanism
 - (iii) Screening equipments

Unit-III

- 3. (a) Define cofferdam.

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- (b) Discuss diaphragm wall in brief. 7
- (c) Explain process of grouting. 7
- (d) Write short notes on following : 7
 - (i) Box Jacking
 - (ii) Cassion sinking
 - (iii) Construction with membrane

Unit-IV

- 4. (a) Define Launching Technique. 2
- (b) Describe technique of high rise buildings. 7
- (c) Explain vaccum dewatering procedure. 7
- (d) Write short notes on following :
 - (i) Piling technique
 - (ii) Operation of offshore system
 - (iii) Paving technology

Unit-V

- 5. (a) Define Demolition.

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- (b) Describe mudjacking process. 7
- (c) Discuss about micropiling. 7
- (d) Write short notes on following : 7
 - (i) Screw and fastners
 - (ii) Water proofing
 - (iii) Sequence of demolition

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