

320744(20)

B. E. (Seventh Semester) Examination,

April-May, 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) What are factors affecting output of a dragline? 2
- (b) Differentiate between graders and scrapers. Explain them with neat sketches. 7

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- (c) Discuss any two method pile driving and suitability. 7
- (d) Explain the types of conveyors. 7

Unit-II

- 2. (a) What are the stages involved in aggregate production? 2
- (b) Write notes on : 7
 - (i) Gyratory crushers
 - (ii) Cone crushers
- (c) Explain concrete mixing machine. 7
- (d) Describe the compacting equipment techniques. 7

Unit-III

- 3. (a) What is Mud Jacking? 2
- (b) Define Box-jacking and their purpose. 7
- (c) Describe any two methods of piling. 7
- (d) Write short notes on caisson sinking. 7

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Unit-IV

4. (a) Define substructure and super structure. 2
(b) Write about tremix concrete technology. 7
(c) Define road structure and their elements. 7
(d) What are the safety measures for high rise building constructions? 7

Unit-V

5. (a) What is Screw Anchors? 2
(b) Discuss about the techniques of demolition of a structure. 7
(c) Explain Pipe line conveyors used in Pipe Line Laying construction. 7
(d) Write short notes on water proofing techniques. 7

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