

320754(20)

B. E. (Seventh Semester) Examination, 2020

(Old Scheme)

(Civil Engg. Branch)

CONSTRUCTION EQUIPMENTS and TECHNIQUES

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Part (a) is compulsory of 2 marks. Attempt any two part from (b), (c) and (d) carry 7 marks.

1. (a) Write names of any two pile driving equipments. . 2
- (b) Explain following equipments in brief: 7
 - (i) Scrapers

[2]

- (ii) Earth movers
- (iii) Tractors
- (c) Discuss function and application of dozers and graders. 7
- (d) Explain following terms : 7
 - (i) Dredging
 - (ii) Hauling
 - (iii) Trenching
 - (iv) Ripping
- 2. (a) What is Concrete Mixing Machine? 2
- (b) Differentiate between roll crushers and cone crushers. 7
- (c) Describe R.M.C. in detail. 7
- (d) Write short notes on : 7
 - (i) Hauling equipment
 - (ii) Pumping equipment
 - (iii) Screening equipment
- 3. (a) Define pipe jacking. 2

[3]

- (b) Describe box Jacking in detail. 7
- (c) Discuss prestressing in high rise building construction. 7
- (d) Write short notes on : 7
 - (i) Cofferdam
 - (ii) Cassion sinking
- 4. (a) What is concrete paving technology? 2
- (b) Explain suspended form work technique. 7
- (c) Write advantages and disadvantages of tall buildings. 7
- (d) Explain vacuum dewatering in detail. 7
- 5. (a) What is screw anchor? 2
- (b) Explain Mud Jacking method. 7
- (c) Explain pipe line conveyors used in construction. 7
- (d) Write short notes on : 7
 - (i) Steps of demolitions
 - (ii) Water proofing