USN | | | | | | | | | |

10CT74

Seventh Semester B.E. Degree Examination, Jan./Feb. 2021
Construction Methods and Equipments

Time: 3 hrs.   Max. Marks:100

Note: *Answer any FIVE full questions, selecting at least TWO questions from each part.*

PART – A

1 a. Classify construction equipment based on the purpose.   **(10 Marks)**
   b. List out various salient features of a safety programme.   **(10 Marks)**

2 a. Brief up a comparison between crawler mounted and wheel mounted equipments. **(10 Marks)**
   b. Classify powershowel and mention the basic parts and operation of an powershowel. **(10 Marks)**

3 a. Write a note on trenching equipment and list out various factors to be considered for trench safety. **(10 Marks)**
   b. List out various types of drills used for drilling operation and enumerate about factors to be considered in the selection of drilling equipments. **(10 Marks)**

4 a. Classify various types of compaction equipment and explain, any two in brief. **(10 Marks)**
   b. Enumerate the factors to be considered in grouting process and list, various materials used for the dame. **(10 Marks)**

PART – B

5 a. What are the factors to be considered in selection of a construction pump for general and special purpose? **(10 Marks)**
   b. Brief up a comparison between centrifugal pump and reciprocating pump.   **(10 Marks)**

6 a. List various De-watering methods and explain any two method in brief   **(10 Marks)**
   b. Write a note on :
      i) Hauling equipments
      ii) Pile driving equipments.   **(10 Marks)**

7 a. Write a note on Jaw crusher and gyratory crasher with a neat sketch.   **(10 Marks)**
   b. Explain the purpose of scanning and how the process of processing is done in an crushing plant? **(10 Marks)**

8 a. With a flow chart explain the production process of concrete.   **(10 Marks)**
   b. Write a note on :
      i) Mixers
      ii) Hoisting equipments.   **(10 Marks)**

* * * * *