USN [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]   **10CT74**

Seventh Semester B.E. Degree Examination, Dec.2016/Jan.2017
Construction Methods and Equipments

Time: 3 hrs.   Max. Marks:100

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

PART – A

1   a. Classify construction equipments based on the purpose.   **(10 Marks)**
     b. Enumerate a general safety programme that has to be followed in construction industry.
                                                                                   (10 Marks)

2   a. List out various factors which affects the output of power shovel and mention various methods of improving the same.   **(10 Marks)**
     b. Write a note on:
         i) Hoe
         ii) Clamshells.   **(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. List out various types of compaction equipments and explain any two in brief. **(10 Marks)**
     b. What is foundation grouting? Explain the need of grouting and rate of grouting. **(10 Marks)**

PART – B

5   a. Classify pumping equipment based on purpose and explain, single stage reciprocating pump.
                                                                                   (10 Marks)
     b. Distinguish between centrifugal pump and reciprocating pumps in brief.   **(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. With a flow chart explain the production process of aggregates.   **(10 Marks)**
     b. List out various types of screens used in production of aggregates and explain. **(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)**

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