

SE - 341

Total No. of Pages : 2

Seat No.	
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**M.Tech. (Civil Engineering) (Construction Management)
(Part - I) (Semester - I) (New) (CBCS)
Examination, November - 2019
CM - 102 : CONSTRUCTION EQUIPMENT
Sub. Code : 72073**

Day and Date : Friday, 29 - 11 - 2019
Time : 10.00 a.m. to 12.30 p.m.

Total Marks : 70

- Instructions :
- 1) Attempt any two questions from each section.
 - 2) Figures to the right indicate full marks.
 - 3) Draw neat diagram whenever necessary.
 - 4) Make suitable assumptions whenever necessary.

SECTION - I

- Q1) a)** With the help of neat sketch explain the working of following equipment. [8]
- i) Dragline
 - ii) Power shovel
- b)** What is meant by soil compaction? Will the type of soil influence the selection of compacting equipment? Explain with suitable examples. [9]
- Q2) a)** Write short notes on [8]
- i) Vibratory roller
 - ii) Sheep foot roller
- b)** What is belt conveyor? Where it is used? Draw a neat sketch of belt conveyor system & explain its working. [9]
- Q3) a)** Distinguish between cable ways & rope ways. Describe the role of these two systems for conveying concrete for placement in dam. [9]
- b)** Draw a neat sketch of Trencher. Name the components & explain working of trencher. Discuss the use of trencher as a construction equipment in major construction projects. [9]

P.T.O.

SECTION - II

- Q4) a) Discuss various factors governing the selection of vibrators for concreting under different conditions. [9]
- b) Explain rating of pile hammers. [9]
- Q5) a) Explain in detail classification of piles. [9]
- b) Discuss equipment of conventional tunneling [8]
- Q6) a) Write detail note on ventilation of tunneling [9]
- b) Write detail note on selection of construction equipment. [8]

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