

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2020 COURSE)

B.Tech.Sem - III CIVIL : : SUMMER - 2022

SUBJECT : CONSTRUCTION EQUIPMENT & METHODS

Day : Tuesday
Date : 31-05-2022

S-24363-2022

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw diagram **WHEREVER** necessary.
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Q.1 Describe and explain steps involved in launching of girders including various safety parameters. **(10)**

OR

Q.1 Compare Light, Medium and Heavy Duty of Construction. **(10)**

Q.2 List and explain the use of different types of piles with neat sketches, wherever necessary. **(10)**

OR

Q.2 Explain dredging? Briefly explain various dredging techniques. **(10)**

Q.3 List out the functions of earth moving machines and equipments? Classify and explain any three of them each with a neat sketch, wherever necessary. **(10)**

OR

Q.3 Explicate various vibro compaction methods. List out the various vibro compaction equipments and explain their use with neat sketch, wherever necessary. **(10)**

Q.4 Explain the following equipments on the basis of classification and use-: **(10)**
i) Crushers ii) Conveying Equipments

OR

Q.4 Classify and explain different hauling equipments with neat sketch, wherever necessary. **(10)**

Q.5 What are the various factors affecting selection of various construction machinery and equipments? **(10)**

OR

Q.5 Explain equipment cost and ownership cost and its various aspects with respect to equipment economics. **(10)**

Q.6 What is the importance of dewatering? Briefly explain various dewatering techniques. **(10)**

OR

Q.6 Classify concrete pumps and state the advantages of concreting by pumps. **(10)**

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