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GIET UNIVERSITY, GUNUPUR - 765022
M. Tech (Second Semester) Examinations, May - 2024
MPCT2010 – Construction Equipment and Methods
(CTM)

Time: 3 Hrs

Maximum: 70 Marks

(The figures in the right hand margin indicate marks.)

PART – A**(2 x 10 = 20 Marks)**

Q.1. Answer all questions

	CO#	Blooms Level
a. Give two advantages of dynamic compaction.	CO1	K2
b. What is meant by front shovel?	CO1	K1
c. What are the factors affecting output of power shovel?	CO1	K1
d. What is meant by re-tempering of concrete	CO2	K2
e. List out the equipment's used for transporting concrete.	CO2	K2
f. List out the different types of excavators.	CO3	K1
g. Give two uses of power shovel.	CO3	K1
h. What are the two primary factors considered for selecting size of shovel?	CO4	K1
i. What is a vibro-tamper	CO4	K2
j. What do you mean by compaction?	CO4	K1

PART – B**(10 x 5=50 Marks)**Answer ANY FIVE questions

	Marks	CO#	Blooms Level
2. a. Give a brief account on light soil compaction equipment's.	5	CO1	K3
b. Give a brief account on smooth wheeled rollers.	5	CO1	K2
3.a. Write short notes on sheep foot rollers.	5	CO1	K1
b. Describe briefly about pneumatic tyred rollers and grid rollers.	5	CO1	K1
4. a. What are the advantages of utilizing the construction equipment's?	5	CO2	K1
b. Give a broad classification of construction equipment's.	5	CO2	K2
5.a. Explain briefly about Front shovel and its applications.	5	CO2	K1
b. Write short notes on backhoe and discuss its applications.	5	CO2	K1
6. a. Explain briefly about batching of the concrete.	5	CO3	K3
b. Discuss briefly about hand mixing and machine mixing.	5	CO3	K3
7.a. Give a brief account of loaders. Write short notes on wheel loaders.	5	CO3	K1
b. Give a small account of Tractor front loaders and compact front end loaders.	5	CO3	K1
8. a. What are the steps included in cubic yard estimates?	5	CO4	K2
b. Write short notes on swing loaders and skid and track loaders.	5	CO4	K2

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