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GIET UNIVERSITY, GUNUPUR – 765022
M. Tech (Second Semester Examinations) – October' 2021
MPCCCT 2010 – CONSTRUCTION EQUIPMENT AND METHODS
(Construction Technology and Management)

Time: 2 hrs

Maximum: 50 Marks

(The figures in the right hand margin indicate marks)

PART – AQ.1. Answer **ALL** questions

(2 x 10 = 20)

- What is Optimum depth of cut?
- What is a loader? List out the major components of loaders.
- What are the factors considered in estimating the cost per cubic meter.
- Define the term Dynamic compaction.
- What do you mean by Lime stabilization?
- What are the selection criteria for earthwork equipments?
- What is a clamshell?
- What are the applications of trenching machine?
- What do you mean by compaction by spinning?
- List out the factors used for choosing the correct pump.

PART – B**(6 x 5 = 30 Marks)**Answer **ANY FIVE** questions

Marks

- What is an excavator? Write short notes on Standard excavator and Long-reach excavators (6)
- Explain briefly about the effect of angle of swing on the output of power shovel. (6)
- Describe briefly about pneumatic tyred rollers and grid rollers. Also state their role in construction site. (6)
- Give a detailed description of rainwater harvesting methods. (6)
- Summarize briefly about Concreting equipment. List out various types of concreting equipment. (6)
- Write short notes on pipelines and couplings. (6)
- Explain briefly about reciprocating pump and centrifugal pump. (6)

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