

**Model Question Paper-1/2 with effect from 2022-23 (CBCS Scheme)**

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**Fourth Semester B.E. Degree Examination**  
**Subject Title -Construction Equipment, Plants**  
**and Machinery**

**TIME: 03 Hours****Max. Marks: 100**

Note: Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

<b>Module -1</b>			<b>*Bloom's Taxonomy Level</b>	<b>Marks</b>
Q.01	a	Explain basic and Hydraulic of construction equipment	L2	10
	b	Draw and explain four and two Stroke Engine and their components of construction equipment	L2	10
OR				
Q.02	a	Draw and explain the components of automobile of construction equipment	L2	10
	b	Explain basic layout of hydraulic system and explain strand jack operation.	L2	10
<b>Module-2</b>				
Q. 03	a	Explain concreting, earth moving, road making and quarry	L2	10
	b	Explain the operation and components of concrete pump, concrete pipe line, laying pipeline and cleaning.	L2	10
OR				
Q.04	a	Explain bulldozer classification and components.	L2	10
	b	Explain the classification to Hot mix plant process of Asphalt paver.	L2	10
<b>Module-3</b>				
Q. 05	a	Explain life cycle of a construction equipment.	L2	10
	b	Explain construction equipment performance and parameter.	L2	10
OR				
Q. 06	a	Explain the types of maintenance of a construction equipment	L2	10
	b	Explain the maintenance practices of a construction equipment	L2	10

<b>Module-4</b>				
Q. 07	a	Explain tunnel boring machine	L2	10
	b	Explain TBM and EPB	L2	10
OR				
Q. 08	a	Explain operation of slurry TBM and components	L2	10
	b	Explain Hydraulic grabs and Piling rig	L2	10
<b>Module-5</b>				
Q. 09	a	Explain digital solution in construction projects	L2	10
	b	Explain Railway track construction and Rebar processing machine	L2	10
OR				
Q. 10	a	Explain 3D concrete printer	L2	10
	b	Explain the safety during construction activities for men and Machines	L2	10

\*Bloom's Taxonomy Level: Indicate as L1, L2, L3, L4, etc. It is also desirable to indicate the COs and POs to be attained by every bit of questions.