

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

M.E DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL/MAY 2025

First Semester

Construction Engineering and Management

CN4103/PCNT2403- Construction Equipment and Management

Regulations – 2021/2024

Duration: 3 Hrs

Maximum: 100 Marks

PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

Q.No	Questions	BLT	CO	Marks
1.	Define equipment management in construction projects.	L2	1	2
2.	What factors influence the selection of construction equipment?	L1	1	2
3.	Explain the role of dozers and motor graders in earthwork operations.	L2	2	2
4.	Describe the functions of compacting and finishing equipment in earthwork.	L2	2	2
5.	What is the primary purpose of dredging equipment in construction?	L1	3	2
6.	Name two types of pumps commonly used in construction projects.	L1	3	2
7.	Name any two types of crushers used in aggregate production.	L1	4	2
8.	Explain the functions of asphalt compacting equipment in road construction.	L2	4	2
9.	What is the primary use of forklifts in construction projects?	L1	5	2
10.	Name two types of material handling conveyors commonly used on construction sites.	L1	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No	Questions	BLT	CO	Marks
11.	a i Explain the process of equipment cost control in construction projects.	L2	1	8
	ii Describe the concept of depreciation analysis and its importance in construction equipment management.	L2	1	8
	Or			
	b i Describe the process of maintenance management for construction equipment.	L2	1	8
	ii Explain the concept of cost control for construction equipment and why it is necessary.	L2	1	8

12.	a i	What is earth-moving operations in construction?	L1	2	8
	ii	List any two types of earthwork equipment used in construction.	L1	2	8
Or					
	b i	Explain the role of dozers and motor graders in earthwork operations.	L1	2	8
	ii	Describe the functions of compacting and finishing equipment in earthwork.	L1	2	8
13.	a i	Explain the functions of equipment used in tunneling operations.	L2	3	8
	ii	Discuss the equipment used for drilling and blasting in construction projects.	L2	3	8
Or					
	b	Describe the types and uses of cranes in construction.	L1	3	16
14.	a i	What is the role of batching and mixing equipment in concrete production?	L1	4	8
	ii	Discuss the various types of crushers and their applications in aggregate production.	L1	4	8
Or					
	b	Describe the process and equipment involved in ready-mix concrete production.	L1	4	16
15.	a i	Explain the functions and applications of material handling cranes in construction.	L2	5	8
	ii	Discuss the role of forklifts and related equipment in efficient material handling on construction sites.	L2	5	8
Or					
	b i	Describe the different types of industrial trucks used for material handling.	L2	5	8
	ii	Describe the various types of conveyors used for material handling and their applications in construction.	L2	5	8