

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

ME DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025

Second Semester

Construction Engineering and Management

PCNT2421 – Advanced Construction Techniques

Regulations – 2024

Duration : 3 Hrs

Maximum: 100 Marks

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

Q. No	Questions	BLT	CO	Marks
1.	What is meant by pipe jacking?	L1	1	2
2.	List out the various types of coffer dam.	L1	1	2
3.	Define vacuum dewatering.	L1	2	2
4.	How can you recall aerial transporting?	L1	2	2
5.	Write short note on “skyscrapers”.	L1	3	2
6.	Summarize cable stayed bridges.	L2	3	2
7.	What is meant by seismic retrofitting.	L1	4	2
8.	Demonstrate mud jacking.	L2	4	2
9.	Classify the types of dismantling techniques.	L2	5	2
10.	Define the term: Demolition.	L1	5	2

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

Q.No	Questions	BLT	CO	Marks
11.	a Define tunneling. Explain briefly about tunneling techniques.	L4	1	16
	Or			
	b Classify the different methods of Dewatering for underground open excavation. explain with neat sketches.	L4	1	16
12.	a Classify the various techniques of construction for continuous concreting operation in tall buildings.	L4	2	16
	Or			
	b Explain in detail about erection techniques of tall structures and aerial transporting.	L4	2	16
13.	a Elaborate construction sequence in cooling towers.	L6	3	16
	Or			
	b Identify construction sequence and methods in domes. with neat sketches.	L6	3	16

14.	a	Explain briefly about mud jacking and micro piling.	L5	4	16
		Or			
	b	Explain briefly about soil stabilization techniques.	L5	4	16
15.	a	Demonstrate in detail about various demolition techniques.	L2	5	16
		Or			
	b	Summarize in detail about safety precaution in demolition and dismantling.	L2	5	16