

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***M.E DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Second Semester**Construction Engineering and Management***PCNT2422 – Construction Planning, Scheduling and Control***Regulations – 2024**Duration : 3 Hrs**Maximum : 100 Marks***PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	What are the types of project plan?	L2	1	2
2.	Summarize the objectives of planning.	L2	1	2
3.	Compare CPM and PERT.	L2	2	2
4.	Define resource construct.	L1	2	2
5.	What is the significance of defining relationships in PDM?	L1	3	2
6.	Outline the role of the Project Monitoring and Control Process.	L2	3	2
7.	State any one of the purpose of work scheduling in project management.	L2	4	2
8.	What is meant by time/cost trade-off in project scheduling?	L1	4	2
9.	Why is it important to review project time and cost progress?	L1	5	2
10.	Summarize direct and indirect cost control.	L2	5	2

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

<i>Q.No</i>	<i>Questions</i>		<i>BLT</i>	<i>CO</i>	<i>Marks</i>																								
11.	a	Explain coding systems in detail with neat sketches.	L2	1	16																								
		Or																											
	b	Summarize the procedure of the estimating the resource requirements for activities.	L2	1	16																								
12.	a	For the given data below of a construction project schedule determine the critical path and all floats.	L4	2	16																								
		<table><tr><td>Activity</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>G</td></tr><tr><td>Predecessors</td><td>-</td><td>-</td><td>A,B</td><td>C</td><td>C</td><td>D</td><td>D,E</td></tr><tr><td>Durations</td><td>3</td><td>5</td><td>4</td><td>6</td><td>3</td><td>2</td><td>4</td></tr></table>	Activity	A	B	C	D	E	F	G	Predecessors	-	-	A,B	C	C	D	D,E	Durations	3	5	4	6	3	2	4			
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Predecessors	-	-	A,B	C	C	D	D,E																						
Durations	3	5	4	6	3	2	4																						
		Or																											
	b	List the various methods of presenting project schedules with suitable examples.	L4	2	16																								
13.	a	Develop a case study illustrating the application of PDM in a construction project.	L3	3	16																								
		Or																											
	b	Discuss the process of analyzing a PDM network. How are critical paths identified, and what is the significance of slack in the network? Explain with a diagram and example.	L3	3	16																								

14.	a	List the different methods of work scheduling used in project management. Compare and contrast the Bar Chart Method, Network-Based Scheduling, and Line of Balance Scheduling for repetitive projects.	L4	4	16
		Or			
	b	Prepare a case illustration of a project where various scheduling techniques were applied.	L4	4	16
15.	a	Examine activity cost control in detail. How are individual activity costs monitored and controlled during the project?	L4	5	16
		Or			
	b	List Earned Value Management as a performance control tool.	L4	5	16