

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

M.E DEGREE END SEMESTER THEORY EXAMINATIONS, NOV /DEC 2024

Second Semester

Construction Engineering and Management

CN4008 - Resource Management and Control in Construction

Regulations - 2021

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.	Define resource planning.	RE	1	2
2.	Compare direct and indirect manpower.	UN	1	2
3.	How is resource utilization measured?	UN	2	2
4.	Define cost of labour.	RE	2	2
5.	List the steps involved in monitoring material of delivery schedule.	RE	3	2
6.	Why is the source of equipment an important consideration?	UN	3	2
7.	Mention the stages in projects time monitoring.	RE	4	2
8.	Why is cost control essential in project management?	UN	4	2
9.	Define rate of crashing.	RE	5	2
10.	Give an example of a situation where a time-cost trade-off might be necessary.	UN	5	2

PART - B (ANSWER ALL QUESTIONS) (Marks 5*13 = 65)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Elaborate on the different types of resources used in projects. How are these resources identified and allocated effectively?	UN	1	13
	Or			
	b Enumerate the concept of cost control and its importance in minimizing the project cost.	UN	1	13
12.	a Elucidate the systems approach to resource management. How does it contribute to effective resource allocation and utilization?	UN	2	13
	Or			
	b Describe the system approach in labour resources planning and scheduling.	UN	2	13
13.	a Discuss the key factors to consider when determining the time of material purchase. How can timely procurement contribute to project success?	UN	3	13
	Or			
	b "Optimizing equipment utilization is crucial for project efficiency and cost-effectiveness". Justify this statement with relevant examples.	UN	3	13

- | | | | | | |
|-----|---|---|----|---|----|
| 14. | a | Outline the key steps involved in project time management to ensure efficient utilization of personnel time and successful achievement of project objectives. | UN | 4 | 13 |
| Or | | | | | |
| | b | Analyze the factors contributing to deviations in direct and indirect costs from their planned values. | UN | 4 | 13 |
| 15. | a | Explicate the steps involved in resource leveling within project management. How does this technique contribute to efficient resource allocation and schedule optimization? | UN | 5 | 13 |
| Or | | | | | |
| | b | Distinguish between resource allocation and resource loading. How do these processes optimize resource utilization for efficient project management? | UN | 5 | 13 |

*PART – C (Marks 1*15 = 15)*

<i>Q.No</i>		<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
16.	a	Analyze the potential of value management principles to optimize resource allocation within an organization. Use a concrete example to demonstrate this application.	UN	5	15
Or					
	b	Delve into the diverse array of tools employed in the intricate process of resource management, examining their functionalities and applications within organizational contexts.	UN	2	15