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Fourth Semester MCA Degree Examination, Dec.2024/Jan.2025
Software Project Management

Time: 3 hrs.   Max. Marks:100

Note: *1. Answer any FIVE full questions, choosing ONE full question from each module.*
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	**M**	**L**	**C**
1	a.	What is software project and why is it crucial to manage such projects effectively?	8	L2	CO1
	b.	Explain the primary activities involved in software project management and discuss how these activities impact the overall success of project.	7	L2	CO1
	c.	Explain the concept of stakeholders in software project management. Identify and describe the roles and interests of atleast three different type of stakeholders in a project.	5	L2	CO1
		OR			
2	a.	What is contract management within software project management? Explain its significance and identify the key components involved.	10	L2	CO1
	b.	What are the key indicators of success and failure in software project management? Provide example of factors influencing outcomes in software projects.	10	L3	CO3
		Module – 2			
3	a.	Explain various cost benefit evaluation techniques used in software project management. Discuss their importance and limitations.	8	L3	CO3
	b.	How do you conduct a risk evaluation for software project? Outline the steps involved and the key factors to consider.	7	L3	CO3
	c.	Describe the process of evaluating individual projects within a large program. How do you ensure that resources are effectively allocated within program?	5	L3	CO2
		OR			
4	a.	Provide overview of financial accounting in the context of software project management. Explain the key accounting concepts, principles and standards that are relevant.	8	L2	CO1
	b.	Illustrate the process of ledger posting and preparation of a trial balance.	7	L3	CO1
	c.	Explain the components of profit and loss account and balance sheet.	5	L2	CO1
		Module – 3			
5	a.	Explain the objectives of activity planning in software project management. Why is it important to have well-defined activity plan before starting a project?	7	L2	CO1
	b.	Describe the process of sequencing and scheduling activities in a software project. Explain how forward-pass network planning model help in this process.	8	L3	CO2
	c.	What is critical path in project schedule? Why is it important for managing project timelines?	5	L2	CO2

		OR			
6	a.	Define risk management. Discuss different categories of risks that can affect a software project.	7	L2	CO3
	b.	Explain the framework for dealing with risks that can affect a software project.	8	L2	CO3
	c.	Discuss the strategies for risk planning and risk monitoring.	5	L2	CO3

Module – 4

7	a.	Explain the importance of establishing a monitoring and control framework in software project management.	7	L2	CO1
	b.	Describe the different methods used for data collection in monitoring software projects.	7	L2	CO1
	c.	Discuss the significance of regular project reviews and the final project termination review. How do these reviews contribute to project success?	6	L2	CO1
		OR			
8	a.	Explain the process of cost monitoring in software projects. What are the challenges faced in monitoring costs and how can these challenges be mitigated?	10	L3	CO3
	b.	Define Earned Value Analysis and explain its importance in project management. What are the key matrics used in earned value key matrics used in Earned Value Analysis and how do they help in assigning project performance?	10	L3	CO3

Module – 5

9	a.	Explain the key components of organizational behavior and how understanding these elements can help in managing people effectively in software projects.	10	L2	CO4
	b.	Describe Oldham-Hackman job characteristics model. How can this model be applied to improve motivation and job satisfaction among team members in a software development team?	10	L3	CO4
		OR			
10	a.	Outline the stages of team development according to Tuckman's model. Provide specific strategies a project manager can use at each stage to faster effective teamwork.	8	L3	CO4
	b.	Explain the importance of effective decision-making in software project teams.	6	L3	CO4
	c.	Compare and contrast traditional leadership styles with modern leadership practices in the context of software project management.	6	L3	CO4

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