

U.S.N.

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

October 2024 Supplementary Examinations

Programme: B.E.

Branch: Information Science and Engineering

Course Code: 22IS6HSSPM

Course: Software Project Management and Finance

Semester: VI

Duration: 3 hrs.

Max Marks: 100

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.			UNIT - I	CO	PO	Marks
	1	a)	Describe any five strategic considerations that can be used to authorize any project with suitable examples for each.	CO1	PO	05
		b)	Provide a Projectized Organizational structure with a suitable diagram for an IT company with departments as Human Resource, Finance, Operations and Marketing	CO2	PO1	05
		c)	Assuming that you are a wedding planner, explain the five different project management phases that you would follow for the upcoming wedding.	CO2	PO1	10
			UNIT - II			
	2	a)	Assuming that you are a project manager in an automobile manufacturing industry, and you are assigned a project to develop an electric vehicle. Illustrate how would you design a Project Charter for the same.	CO2	PO1	10
		b)	Create a work breakdown structure for an aircraft manufacturing company with suitable diagram.	CO2	PO1	06
		c)	Discuss the various methods of reaching a group decision using the Group decision techniques.	CO2	PO1	04
			OR			
	3	a)	Explain in detail the Plan Scope Management process.	CO2	PO1	10
		b)	Assuming that you are a project manager in a Software company, and you are assigned a project of developing a software for a client. Illustrate how would you direct and manage the project work for the same.	CO2	PO1	10
			UNIT - III			
	4	a)	Illustrate the tools and techniques to control project cost.	CO3	PO2	05

	b)	Describe the importance of developing a “Cost Management Plan”.	CO3	PO11	05
	c)	You are managing a project which is into six months of its execution. You are now reviewing the project status and you have ascertained that project is behind schedule. The actual cost of Activity A is ₹ 1,80,000 and that of Activity B is ₹ 80,000. The planned value of these activities are ₹1,50,000 and ₹ 50,000 respectively. The Activity A is 90% complete. However, Activity B is only 75% complete. Calculate the schedule performance index, cost performance index and the project on the review date.	CO3	PO2	10
		OR			
5	a)	Describe the inputs to be considered during the process of determining the budget for a project.	CO3	PO11	08
	b)	Earned value management (EVM) is a methodology that combines scope, schedule, and resource measurements to assess project performance and progress. It is a commonly used method of performance measurement for projects. In brief illustrate the three dimensions of “Earned Value Management”.	CO3	PO11	06
	c)	Compute Estimate At Completion (EAC) and Variance At Completion (VAC) if both SPI and CPI influence the project work when given variables are <ul style="list-style-type: none"> Budget At Completion (BAC) = \$27,000 Earned Value (EV) = \$17,000 Planned Value (PV) = \$18,000 Actual Cost (AC) = \$19,000 	CO3	PO2	06
		UNIT - IV			
6	a)	Illustrate all the basic quality tools used for managing the projects quality.	CO4	PO12	10
	b)	Discuss the “Plan Human Resource Management” process in detail.	CO4	PO10	10
		UNIT - V			
7	a)	Source selection criteria are often included as a part of the procurement documents. Such criteria are developed and used to rate or score seller proposals, and can be objective or subjective. Discuss any 5 such criteria’s that are commonly used as a part of procurement purchase.	CO4	PO7	05
	b)	Describe the various inputs to the plan risk management phase.	CO4	PO10	05
	c)	Explain the Plan Procurement Management phase in detail.	CO4	PO7	10