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

Autonomous Institute Affiliated to VTU

July 2023 Semester End Main Examinations

Programme: B.E.

Branch: Information Science and Engineering

Course Code: 20IS6HSPMF

Course: Software Project Management and Finance

Semester: VI

Duration: 3 hrs.

Max Marks: 100

Date: 14.07.2023

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)	Illustrate the relationship between Portfolio, Programs and Projects by considering construction company as an example.	CO1		04
		b)	Provide a Projectized Organizational structure for a IT company with departments Human Resource, Finance, Operations and Marketing.	CO1		06
		c)	Assuming that you are organizing a graduation day for the engineering students, explain the five different project management process groups/phases.	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)	Describe the different Group Creativity Techniques that are used as tools in the requirement collection phase.	CO2	PO1	05
		c)	With a neat block diagram create a Work Breakdown Structure for an Aircraft System.	CO2	PO1	05
			UNIT - III			
	3	a)	You are assigned to manage a huge human resource in a project. Explain the five different techniques used for resolving conflict in the project.	CO3	PO2, PO11	05
		b)	Discuss various inputs to plan risk management phase.	CO3	PO2, PO11	05
		c)	Explain the Plan Stakeholder Management phase in detail.	CO2	PO1	10
			OR			
	4	a)	Discuss the various formats that exists for documenting team member's roles and responsibilities.	CO3	PO2, PO11	06

	b)	Illustrate the various tools and techniques used for managing a project team	CO2	PO1	06
	c)	Identify and explain Stakeholders phase in detail.			08
		UNIT - IV			
5	a)	Discuss the various tools and techniques used in cost estimation phase.	CO3	PO2, PO11	08
	b)	Compute and Estimate At Completion (EAC) and Variance At Completion (VAC) if SPI and CPI both influence the project work when variables given are as follows: <ul style="list-style-type: none"> • Budget At Completion (BAC) = 30,000/- rupees • Earned Value (EV) = 15,000/- rupees • Planned Value (PV) = 12,000/- rupees • Actual Cost (AC) = 18,000/- rupees 	CO3	PO2, PO11	06
	c)	Describe any six basic quality tools			06
		OR			
6	a)	Describe any six Quality Management and Control Tools	CO3	PO2, PO11	06
	b)	A software development project that you are managing has budget at completion (BAC) of \$400,000. At month seven, 65% of the work was planned to be complete but stands at 50%. Actual cost is \$275,000. What is the project's ETC?	CO3	PO2, PO11	06
	c)	Explain the different inputs used for determining the budget for a project.	CO3	PO2, PO11	08
		UNIT - V			
7	a)	Explain the four primary ways through which the customers drive a sustainable growth.	CO4	PO7, PO12	06
	b)	Explain Leap with a suitable case study.	CO4	PO7, PO12	08
	c)	With a neat diagram, describe the three step process of steering.	CO4	PO7, PO12	06
