Bangalore Centre Program:-MS (Quality Management systems) **Course:-Project Management**

END SEMESTER EXAMINATION

MAX MARKS: 100

Instructions to the Candidates:

- The question paper Consists of Four Parts. Part –A is objective type questions meant to test your conceptual understanding of the subject taught to you. Each Question carries 2 Marks 1 Mark for picking the right choice and one mark for justifying your selection.
- Part B and Part C Consists of five marks questions and ten marks questions to test your ability to get into the subject in detail.
- Part D Consists of questions on the basis of a case study- this tests your ability to apply the knowledge to real world problem situations and scenario's.
- Part A has a weight age of 20 marks and is compulsory. Part B & C Consists of questions with weight age of 5 marks and 10 marks with a total weight age of 30 & 30 marks respectively. The total marks for section B & C Put together is 70 marks. Part D is a case study problem which is compulsory. This case study carries 20 Marks.

Q. No	Part A	Marks
1	This section is based on MCQ's (Multiple choice questions). Read the questions carefully and choose the most appropriate answer. Write down the question along with the option chosen. A line of reasoning must be added to justify your selection of the appropriate answer. One mark for choosing the appropriate answer and one mark for justification.	(10 * 2 = 20 marks)
1.1	 Which estimating technique is most accurate? A. Bottom-up estimating B. Analogous estimating C. Parametric modeling D. None of the above 	
1.2	 Which statement is true about project cost? A. Costs associated with projects are not just the costs of goods procured to complete the project. B. The cost of the labor may be one of the biggest expenses of a project. C. The cost of the equipment and materials needed to complete the project work must be factored into the project expenses. D. All of the above. 	
1.3	 You are a project manager for an agricultural supply company. You have just completed and obtained sign-off on the scope statement for your new Natural Bug Busters project. A key stakeholder has informed you that a deliverable is missing from the scope statement. This deliverable is a critical success factor. You should do which of the following? A. Inform the stakeholder that work not stated in the scope statement is excluded from the project. B. Modify the scope statement to reflect the new deliverable. C. Inform the stakeholder that this deliverable can be included in the next project 	

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	since sign-off has already been obtained. D. Modify the scope statement after an approved change request has been received from the stakeholder.	
1.4	Which organization has set the de facto standards for project management techniques?A. PMBOKB. PMOC. PMID. PMA	
1.5	 The VP of marketing approaches you and requests that you change the visitor logon screen on the company's website to include a username with at least six characters. This is considered: A. Project initiation B. Ongoing operations C. A project D. Project execution 	
1.6	 The amount of authority a project manager possesses can be related to: A. The project manager's communication skills B. The organizational structure C. The amount of authority the manager of the project manager possesses D. The project manager's influencing skills 	
1.7	 A project is considered successful when: A. The product of the project has been manufactured. B. The project sponsor announces the completion of the project. C. The product of the project is turned over to the operations area to handle the ongoing aspects of the project. D. The project meets or exceeds the expectations of the stakeholders 	
1.8	 You have been assigned to a project in which the objectives are to direct customer calls to an Interactive Voice Response system before being connected to a live agent. You are in charge of the media communications for this project. You report to the project manager in charge of this project and the VP of marketing, who share responsibility for this project. Which organizational structure do you work in? A. Functional organization. B. Weak matrix organization. D. Balanced matrix organization 	
1.9	Theory Y managers believe which of the following?A. That people are motivated only by money, power, or positionB. That people will perform their best if they're given proper motivation and expectations	

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	C. That people are motivated to achieve a high level of competencyD. That people are motivated by expectation of good outcomes activities of the project.	
1.10	Which of the following is not correct about initial phase of a project?A. The cost associated at the beginning of the project is highest.B. Stakeholders have maximum influence during this phaseC. The highest uncertainty is at this stage of the project.D. All the above statements are correct.	

	Part B (Short Answers) (Answer any Six from the Following) Each question carries 5 Marks.	30
2	List out the tools & techniques deployed for cost estimating with brief one line description of the same.	
3.	What are the items of input for resource planning? List them and add few pointers on them.	
4.	List the critical outputs from the quality planning aspect of project quality management. What are the contents of a typical Quality management plan document?	
5.	Briefly discuss the process of organizational planning. Write down the structure of a role and responsibility matrix.	
6.	What are the inputs for an effective process of communication planning? Briefly Highlight the importance of the communication management plan.	
7.	List some of the common sources of risks in the project environment. Elaborate on the impacts of "poorly defined or understood roles and responsibilities".	
8.	Mention the features of the following types of contractsi.Fixed price or lump sum contracts.ii.Cost reimbursable contracts.iii.Unit price contracts.	
9.	What are the components in a typical procurement management plan?	
10.	What are the dimensions and means of communicating in a typical project environment? Give two examples of formal and informal means of communicating in a project.	
11.	Briefly explain the process of risk quantification using simulation. Highlight the results from running the Monte-Carlo simulation using project data.	

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Part C (Answer any three full questions) Each question carries 10 Marks 30 12 Project Project Technical External Organizational Management Subcontractors Project Estimating Requirements and suppliers dependencies Technology Regulatory Resources Planning Complexity and Market Funding Controlling interfaces Performances Customer Prioritization Communication and reliability Quality Weather Shown above is a typical risk breakdown structure based on known sources of risks. Elaborate on this risk breakdown structure by identifying risks pertaining to the categories given considering the example of constructing a multi-storied building complex in your campus. Illustratively elaborate the concepts underlying following tools and techniques of 13. Quality control. Highlight the key benefits associated with these tools in addressing the quality issues as part of project quality management. Pareto analysis Statistical sampling Six Sigma Quality control charts . 14. "Performance Reporting is an important aspect of project communication management and the main role of reporting is that it keeps stakeholders informed about how resources are being used to achieve project objectives " Elaborate on this with the help of examples to cover status reports, progress reports ,project forecasting ,Status review meetings.

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5.			strategy that includes		
			ard and recognition sy		
		Training to enhance skills, knowledge, and capabilities of project team are deliberated			
		upon. Explain detail how these tools and techniques can improve the overall team			
		dynamics contributing to increasing the success rates of projects undertaken in			
	organization enviror	iments.			
	Your company is te	sting a site for di	rilling for oil. You may l	hit a dry well, a small oi	
	well, or a large oil v	well. Consider th	e following payoff table	(in \$ thousand) for you	
	situation:				
		Dry well	Small oil well	Large oil well	
	Drill	-5000	1000	6000	
	Do not drill	-3000	0	0000	
		0	tives? What are the states	ő	
	,		decisions under each o		
		ii) Maximin iii) I		i the following entern	
	,	<i>, , ,</i>	*		
7	General Motors (GN	1) is planning the	air production strategy fo	r thair next model. Three	
7.			eir production strategy fo		
	alternatives are bein	g considered for	their model Malibu: 30,	,000, 20,000, and 12,000	
7.	alternatives are bein GM decides to categ	g considered for gorize the deman	their model Malibu: 30, ad for Malibu for the nex	,000, 20,000, and 12,000 at year as either High (H	
7.	alternatives are bein GM decides to categ	g considered for gorize the deman yoffs measured in	their model Malibu: 30, ad for Malibu for the nex n millions of dollars and	,000, 20,000, and 12,000 at year as either High (H	
•	alternatives are bein GM decides to categ or Low (L). The pay nature are presented	g considered for gorize the deman yoffs measured in in the table below	their model Malibu: 30, ad for Malibu for the nex n millions of dollars and w.	,000, 20,000, and 12,000 at year as either High (H	
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•	alternatives are bein GM decides to categ or Low (L). The pay nature are presented Decision Produce 30K Produce 20K Produce 12K Probabilities	ig considered for gorize the deman yoffs measured in in the table below Alternative	their model Malibu: 30, ad for Malibu for the nex n millions of dollars and w. High (H) 29 18 3 0.62	000, 20,000, and 12,000 at year as either High (H probabilities of states on Low (L) -12 8	
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7.	alternatives are bein GM decides to categ or Low (L). The pay nature are presented Decision Produce 30K Produce 20K Produce 12K Probabilities For this problem, if 1) How many deci 2) How many bran 3) How many chan 4) How many bran	we want to Considered are required to come out of the come out	their model Malibu: 30, ad for Malibu for the nex n millions of dollars and w. High (H) 29 18 3 0.62 truct the decision tree, equired? f each decision node? juired?	000, 20,000, and 12,000 at year as either High (H probabilities of states on Low (L) -12 8 11 0.38	
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	PART-D (CASE STUDY)	20
18.	 Based on the checklist as given below considering the project as developing a green campus in the context of a sprawling university's huge campus or alternatively constructing an additional terminal in the Bangalore International Airport limited. Discuss the importance of :- Preparing the detailed project management plan identifying risks and planning their management/mitigation; ensuring the project's overall objectives, targets at various key stages, and individuals' responsibilities are clearly understood by all concerned; monitoring performance against the plan; highlighting areas of slippage and identifying/initiating corrective action; completing the project milestone reports prior to meeting with the independent reviewer at key milestones; ensuring appropriate communication between the members of the project team and other project stakeholders including, where appropriate, the end users; Ensuring that the project complies with all appropriate procedures and regulations, e.g. human resources, financial and procurement etc. 	