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

Autonomous Institute Affiliated to VTU

January / February 2025 Semester End Main Examinations

Programme: B.E.

Semester: V

Branch: ECE, EEE, ETE & EIE

Duration: 3 hrs.

Course Code: 22ES5HSPMF

Max Marks: 100

Course: Project Management and Finance

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

			UNIT - I		CO	PO	Marks
1	a)	DS Max is working on a Housing Project they are in the definition phase of the Project what are the details they should have examined and document, so that the customers and the financial institutions to make up their mind on the Project?			<i>CO1</i>	<i>PO1</i>	10
	b)	Discuss the Steps in Project Management?			<i>CO1</i>	<i>PO1</i>	10
		OR					
2	a)	Elaborate on the roles and responsibilities of project manager.			<i>CO1</i>	<i>PO1</i>	10
	b)	Explain the importance of planning in project management. Also mention the domains where planning is to be done.			<i>CO1</i>	<i>PO1</i>	10
			UNIT - II				
3	a)	Discuss the following terms of finance (1) Capital Cost (2) Working Capital (3) Operational Cost?			<i>CO2</i>	<i>PO11</i>	06
	b)	By conducting a feasibility study, an organization want to receive a third-party perspective on the organization's upcoming campaign or project. Explain how feasibility study provides vital answers to help the organization create and run a successful fundraising campaign. Propose five questions a good feasibility study should help you answer.			<i>CO2</i>	<i>PO2</i>	08
	C)	An investor purchases property A, which is valued at Rs 5000000. Two years later, the investor sells the property for Rs 10000000. How would you evaluate the Project Profitability?			<i>CO2</i>	<i>PO11</i>	06
		OR					
4	a)	What is a project budget? Discuss the various steps in cost estimation			<i>CO2</i>	<i>PO11</i>	06
	b)	Explain briefly the various methods used for assessing the profitability of a Project highlighting their relative strengths and weaknesses			<i>CO2</i>	<i>PO2</i>	08

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.

	C)	What is “Feasibility report? Discuss on the contents of Feasibility report	CO2	PO1	06																																						
		UNIT - III																																									
5	a)	With a neat illustration describe organization structure.	CO1	PO1	08																																						
	b)	Discuss the role of the Project Manager as a Staff Assistant.	CO2	PO9	06																																						
	C)	Illustrate the sequence of events in a Business Contract?	CO2	PO9	06																																						
		OR																																									
6	a)	List out the factors to be considered while taking decision on the number of Contracts?	CO1	PO1	10																																						
	b)	Discuss the Turn Key Contract with example?	CO2	PO2	05																																						
	c)	Explain how tenders are evaluated?	CO2	PO9	05																																						
		UNIT - IV																																									
7	a)	Describe the characteristics that could distinguish a system?	CO1	PO1	10																																						
	b)	Discuss how Gantt’s Chart can be used to monitor a project. The following table shows the tasks, dependencies, and estimated times a project manager might input to a basic GANTT chart for a software development project. Draw the chart indicating all the inputs.	CO2	PO2	10																																						
	<table border="1"> <thead> <tr> <th colspan="4">Project start date: 12 March 2024</th> </tr> <tr> <th>Task Identifier</th> <th>Task Description</th> <th>Predecessor Task(s)</th> <th>Time (days)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Establish project</td> <td>-</td> <td>2</td> </tr> <tr> <td>2</td> <td>Establish customer requirements</td> <td>1</td> <td>3</td> </tr> <tr> <td>3</td> <td>Produce software specification documents</td> <td>2</td> <td>4</td> </tr> <tr> <td>4</td> <td>Write test plans</td> <td>3</td> <td>1</td> </tr> <tr> <td>5</td> <td>Write code</td> <td>3</td> <td>2</td> </tr> <tr> <td>6</td> <td>Developer testing</td> <td>5</td> <td>2</td> </tr> <tr> <td>7</td> <td>System testing</td> <td>4, 6</td> <td>4</td> </tr> <tr> <td>8</td> <td>Write customer documentation</td> <td>3</td> <td>3</td> </tr> </tbody> </table>					Project start date: 12 March 2024				Task Identifier	Task Description	Predecessor Task(s)	Time (days)	1	Establish project	-	2	2	Establish customer requirements	1	3	3	Produce software specification documents	2	4	4	Write test plans	3	1	5	Write code	3	2	6	Developer testing	5	2	7	System testing	4, 6	4	8	Write customer documentation
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8	a)	Your Project Manager, Chas Wood, has produced the following network diagram for a programming project. Chas has specified the duration for each activity in Table I below. The following details are available regarding the project:																																									

		<p style="text-align: center;">Table I</p> <table border="1"> <thead> <tr> <th>Activity</th><th>Precedence</th><th>Duration</th></tr> </thead> <tbody> <tr> <td>A</td><td>-</td><td>3</td></tr> <tr> <td>B</td><td>A</td><td>5</td></tr> <tr> <td>C</td><td>A</td><td>7</td></tr> <tr> <td>D</td><td>B</td><td>10</td></tr> <tr> <td>E</td><td>C</td><td>5</td></tr> <tr> <td>F</td><td>D,E</td><td>4</td></tr> </tbody> </table> <p>Determine the critical path, the critical activities and the project completion time.</p>	Activity	Precedence	Duration	A	-	3	B	A	5	C	A	7	D	B	10	E	C	5	F	D,E	4			
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	b)	Alpha Associates want to host a Company Holiday Party. Apply Work Break Down structure for this project and explain the process.	<i>CO2</i>	<i>PO2</i>	10																					
		UNIT - V																								
9	a)	Differentiate between Preference Shares and Equity shares?	<i>CO2</i>	<i>PO11</i>	10																					
	b)	Identify and explain the various sources of Long Term Finances	<i>CO2</i>	<i>PO11</i>	10																					
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10	a)	Differentiate between Equity and Debt. Discuss on the key factors that determine the Debt-Equity ratio.	<i>CO2</i>	<i>PO11</i>	10																					
	b)	Discuss the primary purpose of Venture Capital. Mention the advantages and disadvantages of Internal Accruals	<i>CO2</i>	<i>PO11</i>	10																					
