

U.S.N.

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

Autonomous Institute Affiliated to VTU

## January / February 2025 Semester End Main Examinations

**Programme: B.E.**

**Branch: ES Cluster (EEE/ET/ECE/EIE/MD)**

**Course Code: 19ES7HSPMF**

**Course: Project Management and Finance**

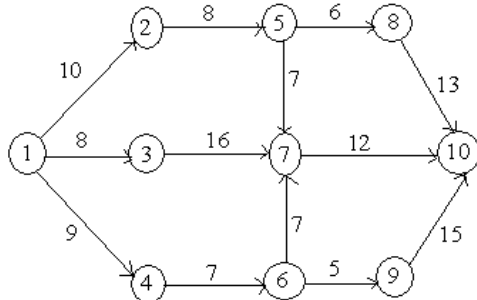
**Semester: VII**

**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.			<b>UNIT - I</b>	<i>CO</i>	<i>PO</i>	<b>Marks</b>
	1	a)	Explain the sequence and the effort involved in the various phases of a project life cycle?	<i>CO1</i>	<i>PO1</i>	<b>06</b>
		b)	Create a Checklist for the approval of a student academic Project and a template for project evaluation so that the project can be provided with financial assistant	<i>CO2</i>	<i>PO2</i>	<b>06</b>
		c)	Do you think integrity is an essential quality of a project manager? Discuss all traits and characteristics an ethical leader should have?	<i>CO2</i>	<i>PO8</i>	<b>08</b>
			<b>OR</b>			
	2	a)	Discuss the importance of finalization of project implementation schedule	<i>CO1</i>	<i>PO1</i>	<b>06</b>
		b)	What are the major characteristics of a project	<i>CO2</i>	<i>PO2</i>	<b>06</b>
		c)	Enumerate the sub phases of project implementation	<i>CO2</i>	<i>PO8</i>	<b>08</b>
			<b>UNIT - II</b>			
	3	a)	Discuss the various ratios used in the estimation of order of magnitude?	<i>CO2</i>	<i>PO2</i>	<b>06</b>
		b)	How cost estimate is prepared for a infrastructure project.	<i>CO3</i>	<i>PO11</i>	<b>06</b>
		c)	ZigZag & Co. is planning to launch a robust mobile app for food delivery in the next 6 months (Assume from today). The team at Crazy Hazy Inc. would be creating a website for the new app. Explain Zero date for this Project and what pre-project activities should be completed before zero date.	<i>CO2</i>	<i>PO2</i>	<b>08</b>
			<b>OR</b>			
	4	a)	Explain delegation and describe the process	<i>CO2</i>	<i>PO2</i>	<b>06</b>
		b)	An industry is considering investing in a project which cost Rs 6,00,000/-. Cash inflows from 1 <sup>st</sup> year to 5 <sup>th</sup> year are Rs 1,20,000/-, Rs 1,40,000/-, 1,80,000/-, 2,00,000/-, 2,50,000/-. Calculate the Pay Back Period?	<i>CO3</i>	<i>PO11</i>	<b>06</b>

	c)	With an example prepare the schedule of project implementation	CO2	PO2	08																																				
		UNIT - III																																							
5	a)	Explain Tender and elaborate on who should prepare a good Tender document and what all it includes?	CO1	PO1	10																																				
	b)	You're managing a project to build a new automation system for resource planning one of the staff in other department really likes the current system and is refusing to be trained on the new one. How would you handle this situation using 7 'C' model?	CO2	PO2, 8	10																																				
		OR																																							
6	a)	Discuss the various ways a contractor can reimburse for the services rendered by him?	CO1	PO1	08																																				
	b)	Discuss the Matrix organization Structure stating examples for a strong and weak matrix?	CO1	PO1	08																																				
	c)	Identify the factors you will pay attention to while selecting your team?	CO2	PO2	04																																				
		UNIT - IV																																							
7	a)	Determine the early start and late start in respect of all node points and identify critical path for the following network. 	CO3	PO11	10																																				
	b)	Explain Why Work breakdown structure is helpful in Project Management? With an example show how to create and use Work breakdown structure effectively?	CO2	PO2	10																																				
		OR																																							
8	a)	You have to manage a project with activities and their respective duration as listed in the Table 6a <b>Table 6a: Project Data</b> <table border="1" data-bbox="333 1650 1032 2083"><thead><tr><th>Activity</th><th>Immediate Predecessor</th><th>Duration (Months)</th></tr></thead><tbody><tr><td>A</td><td>None</td><td>2</td></tr><tr><td>B</td><td>A</td><td>4</td></tr><tr><td>C</td><td>A</td><td>2</td></tr><tr><td>D</td><td>B</td><td>2</td></tr><tr><td>E</td><td>B, C</td><td>4</td></tr><tr><td>F</td><td>A, E</td><td>6</td></tr><tr><td>G</td><td>D</td><td>4</td></tr><tr><td>H</td><td>D, E, F</td><td>2</td></tr><tr><td>I</td><td>G, H</td><td>6</td></tr><tr><td>J</td><td>H, F</td><td>6</td></tr><tr><td>K</td><td>H, I, J</td><td>4</td></tr></tbody></table>	Activity	Immediate Predecessor	Duration (Months)	A	None	2	B	A	4	C	A	2	D	B	2	E	B, C	4	F	A, E	6	G	D	4	H	D, E, F	2	I	G, H	6	J	H, F	6	K	H, I, J	4	CO3	PO11	10
Activity	Immediate Predecessor	Duration (Months)																																							
A	None	2																																							
B	A	4																																							
C	A	2																																							
D	B	2																																							
E	B, C	4																																							
F	A, E	6																																							
G	D	4																																							
H	D, E, F	2																																							
I	G, H	6																																							
J	H, F	6																																							
K	H, I, J	4																																							

		1) Construct precedence diagram to analyze your project. 2) What is the project duration? 3) Identify the critical activity? 4) Show critical path on your precedence diagram. 5) When is the latest time that activity G must be completed in order that the project is not delayed?			
	b)	State and explain all characteristics that distinguish a System	<i>CO1</i>	<i>PO1</i>	<b>10</b>
		<b>UNIT - V</b>			
9	a)	Explain Capital Structure and Write the importance of a good capital structure?	<i>CO3</i>	<i>PO11</i>	<b>10</b>
	b)	Describe Internal Accruals stating its advantages and disadvantages	<i>CO3</i>	<i>PO11</i>	<b>10</b>
		<b>OR</b>			
10	a)	Elaborate the contents of a balance sheet	<i>CO3</i>	<i>PO11</i>	<b>10</b>
	b)	Explain the various sources of financing and how is it raised from variety of sources.	<i>CO3</i>	<i>PO11</i>	<b>10</b>

\*\*\*\*\*