



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.														
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

End - Term Examinations – MAY/ JUNE 2025

Date: 04-06-2025

Time: 01:00 pm – 04:00 pm

School: SOC	Program: B. Tech	
Course Code: MGT2021	Course Name: Finance for Engineers	
Semester: IV	Max Marks: 100	Weightage: 50%

CO - Levels	C01	C02	C03	C04	C05
Marks	13	33	28	26	

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2 marks.

10Q x 2M=20M

1.	Define Financial Management	2 Marks	L1	C01
2.	From the following information calculate the amount of liabilities of XYZ Ltd. Total assets 1200000 Total Capital 400000	2 Marks	L3	C01
3.	Mention two methods that consider the time value of money.	2 Marks	L1	C02
4.	Define capital budgeting.	2 Marks	L1	C02
5.	Name two long-term sources of project funding.	2 Marks	L1	C03
6.	A company issues bonds worth ₹5,00,000 at a 7% interest rate. The corporate tax rate is 25%. Calculate the after-tax cost of debt.	2 Marks	L3	C03
7.	Calculate the working capital from the following information of ABC Ltd. Current assets 20000 Current liability 30000	2 Marks	L3	C04

8.	State the concept of working capital.	2 Marks	L1	C04
9.	A company has a 10 percent preference shares of Rs 5,00,000. Determine the cost of preference shares.	2 Marks	L3	C03
10.	Calculate Cost of Goods Sold from the following information Purchases 500000 Wages 15000 Opening stocks 20000 Closing stocks 10000	2 Marks	L3	C01

Part B

Answer ALL the Questions. Each question carries 7 Marks.

Total Marks 35M

11.	a.	Explain Income statement, balance sheet and Cash flow statement with the formats.	07 Marks	L2	C01
Or					
12.	a.	A company reports the following data: Equity Capital: 4,00,000, Reserve and Surplus: 1,00,000, Liabilities: 7,00,000, Current Assets: 2,00,000, Non-current Assets: 6,00,000. Prepare balance sheet of the company.	07 Marks	L3	C01

13.	a.	Summarize the concept of capital budgeting techniques.	07 Marks	L2	C02																											
Or																																
14.	a.	<p>PQR Ltd. is evaluating two investment projects, Project A and Project B. Expected annual profit of the project and initial investment details as follows.</p> <table><tr><th>Year</th><th>Project A</th><th>Project B</th></tr><tr><td>0</td><td>5,00,000.</td><td>8,00,000.</td></tr><tr><td>1</td><td>10,000</td><td>5000</td></tr><tr><td>2</td><td>20,000</td><td>15,000</td></tr><tr><td>3</td><td>30,000</td><td>25,000</td></tr><tr><td>4</td><td>40,000</td><td>35,000</td></tr><tr><td>5</td><td>50,000</td><td>20,000</td></tr><tr><td>Salvage value</td><td>50000</td><td>30000</td></tr><tr><td>Working Capital</td><td>10000</td><td>15000</td></tr></table> <p>Calculate ARR and suggest the company to choose a project.</p>	Year	Project A	Project B	0	5,00,000.	8,00,000.	1	10,000	5000	2	20,000	15,000	3	30,000	25,000	4	40,000	35,000	5	50,000	20,000	Salvage value	50000	30000	Working Capital	10000	15000	07 Marks	L3	C02
Year	Project A	Project B																														
0	5,00,000.	8,00,000.																														
1	10,000	5000																														
2	20,000	15,000																														
3	30,000	25,000																														
4	40,000	35,000																														
5	50,000	20,000																														
Salvage value	50000	30000																														
Working Capital	10000	15000																														

15.	a.	Distinguish between equity shares and preference shares.	07 Marks	L2	C03
Or					

16.	a.	<p>A company has the following capital structure:</p> <p>Equity: ₹12,00,000 with a cost of equity at 12%</p> <p>Debt: ₹8,00,000 with a cost of debt at 8%</p> <p>Preference shares 6,00,000 with a cost of 9%</p> <p>Retained earnings of 4,00,000 with a cost of 12%.</p> <p>Calculate the Weighted Average Cost of Capital (WACC).</p>	07 Marks	L3	CO 3
-----	----	--	----------	----	---------

17.	a.	Calculate Net working capital and Gross working capital from the following information.		07 Marks	L3	CO 4
		Particulars	Amount (₹)			
		Stocks	3,00,000			
		Cash in hand	10,000			
		Creditors	6,000			
		Trade Debtors	15,000			
		Pre-paid Expenses	20,000			
		Cash at bank	1,00,000			
		Bills Payables	8,000			
Or						
18.	a.	Discuss different approaches of working capital investment.		07 Marks	L2	CO 4

19.	a.	Differentiate between ARR and IRR in detail.	07 Marks	L2	CO 2
Or					
20.	a.	<p>A project requires an initial investment of ₹4,00,000. The expected cash inflows for the next four years are as follows:</p> <p>Year 1: ₹1,00,000</p> <p>Year 2: ₹1,20,000</p> <p>Year 3: ₹1,40,000</p> <p>Year 4: ₹1,60,000</p> <p>Calculate Net Present Value (NPV) using a discount rate of 10%.</p>	07 Marks	L3	CO 2

Part C

Answer any Three Questions. Each question carries 15 marks

3Q x 15M=45M

21.	a.	<p>A company provides the following details:</p> <p>Net Income: ₹40,000</p> <p>Depreciation: ₹12,000</p> <p>Increase in Inventory: ₹6,000</p> <p>Decrease in Accounts Payable: ₹4,000</p>	15 Marks	L3	CO 1
-----	----	---	----------	----	---------

		Purchase of Equipment: ₹25,000 Sale of Land: ₹15,000 Loan Taken: ₹50,000 Loan Repaid: ₹20,000 Prepare the Cash Flow Statement.			
--	--	--	--	--	--

22.	a.	A firm whose cost of capital is 10% considering two projects X and Y, the details of which are as follows:			15 Marks	L3	CO 2
		Particulars	Project X	Project Y			
		1	40,000	90,000			
		2	60,000	80,000			
		3	80,000	60,000			
		4	1,00,000	20,000			
		5	1,20,000	16,000			
		The original investment is Rs.2,00,000 for both projects. Compute the IRR for the two projects. Project X by 20% and 29% and Project Y by 9% and 15% trail rates.					

23.	a.	Discuss different long-term source of finance and its types.	15 Marks	L2	CO 3
-----	----	--	----------	----	---------

24.	a.	Estimate the Working Capital of ABC Ltd by using the following details.		15 Marks	L3	CO 4
		Particulars	Amount (₹)			
		Raw Materials	1,00,000			
		Bills Receivable	10,000			
		Work-in-Progress	25,000			
		Trade Payables	6,000			
		Finished Goods	75,000			
		Trade Debtors	15,000			
		Pre-paid Expenses	20,000			
		Minimum Cash Balance	1,00,000			
		Bills Payables	8,000			
		Wages Payable	10,000			
		Payables for Overheads	15,000			
		Safety Margin	20%			