Reg. No.



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL (A constituent unit of MAHE, Manipal)

I SEMESTER M.TECH. (Construction Engineering & Management) END SEMESTER EXAMINATIONS, NOV-DEC 2023 SUBJECT: PROJECT FORMULATION AND APPRAISAL [CIE 5112]

(02/12/2023)

TIME: 3 Hours

MAX. MARKS: 50

	Instructions to Candidates:			
*	Answer ALL the questions.			
*	Missing data may be suitably assumed			

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	You have been advised to undertake AHP analysis for determining the contribution of financial criteria to the organizational goals. Determine the priority criteria and check for consistency ratio if the pairwise comparison matrix for said objectives is given as below. RI= 0.58						
1A.	Financial	Earnings per	Payback	Net Profit	5	1	3
	criteria	share	period	4/0			
	Earnings per share	1	5	1/3			
	Payback	1/5	1	1/7			
	period	0	7				
	Net Profit	3	1	1			
1B.	Summarize based on your understanding any three unique challenges faced by the infrastructure sector in Indian scenario with justification			3	1	5	
1C.	Infer under what scenario gross profit ratio changes and what does an increase or decrease in the ratio suggest?			2	4	4	
2A.	Predict the possible environmental impacts to land and water resources during construction phases of a project and recommend the mitigation measures			5	2	5	
2B.	Assessment of s requires multiface	socio-economic ir ted approach. Jus	mpact of the co tify	onstruction project	3	2	5
2C.	Determine the payback period if a project requires a cash outlay of Rs 3800000 and generates cash inflows of Rs 1800000, Rs 1700000, Rs 400000, and Rs 300000 in the 4th year. Also list the limitations of this approach.			2	4	3	

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Determine the Net profit from the given trial balance with a closing stock of 80000. Follow the accounting format as and when required. **Particulars** Debit Credit 150000 Opening stock Sales 300000 Purchases 165000 Wages 60000 3A. 5 3 3 Return inwards 20000 Miscellaneous 95000 expense Interest received 80000 Capital 110000 TOTAL 490000 490000 Compare the financing and investing activities of a cash flow statement 3B. 3 3 4 with examples. Assess the principle of accounting under which inflation of profit can be 3C. 2 3 5 prevented in financial statements Prepare journal entry for the following transactions in proper accounting format for the month of May 2023 1. Commenced business with cash 90.000 2. Purchased goods from X on credit 40,000 4A. 5 3 6 3. Accepted bill drawn by X 20,000 4. Sold goods to B on credit 10,000 5. Paid by cash the bill drawn by X 20,000

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Determine the gross profit ratio with the following information: Revenue from Operations: Cash 1,25,000; Credit 75,000 Purchases: Cash 45,000; Credit 80,000 Carriage Inwards 25,000 Opening Inventory 50,000 Closing inventory 40,000 Return Outwards 25,000 Wages 300004434C.List the role of financial statement from investors and creditors point of view.2345AAn initial investment of Rs.5,00,000 in a project will give cash flows (before tax and depreciation) of. Rs.150000, 150000, 250000 and 325000 respectively for the 4 years, salvage value is negligible. Determine cash flows after tax and Net present value if discount rate is 10% and Tax rate is 35%.435BABC Ltd., has a current ratio of 4:1 and quick ratio of 1:1. If excess of current assets over quick assets represented by inventories is Rs. 75,000, calculate current assets and current liabilities.3435C.Compare between service and management partnership structures under PPP based on the risk factor.255					
4C.List the role of financial statement from investors and creditors point of view.2345AAn initial investment of Rs.5,00,000 in a project will give cash flows (before tax and depreciation) of. Rs.150000, 150000, 250000 and 325000 respectively for the 4 years, salvage value is negligible. Determine cash flows after tax and Net present value if discount rate is 10% and Tax rate is 35%.5435BABC Ltd., has a current ratio of 4:1 and quick ratio of 1:1. If excess of current assets over quick assets represented by inventories is Rs. 75,000, calculate current assets and current liabilities.3435C.Compare between service and management partnership structures under PPP based on the risk factor.255	4B.	Determine the gross profit ratio with the following information: Revenue from Operations: Cash 1,25,000; Credit 75,000 Purchases: Cash 45,000; Credit 80,000 Carriage Inwards 25,000 Opening Inventory 50,000 Closing inventory 40,000 Return Outwards 25,000 Wages 30000	3	4	3
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5B ABC Ltd., has a current ratio of 4:1 and quick ratio of 1:1. If excess of current assets over quick assets represented by inventories is Rs. 75,000, calculate current assets and current liabilities. 3435C. Compare between service and management partnership structures under PPP based on the risk factor. 25	5A	An initial investment of Rs.5,00,000 in a project will give cash flows (before tax and depreciation) of. Rs.150000, 150000, 250000 and 325000 respectively for the 4 years, salvage value is negligible. Determine cash flows after tax and Net present value if discount rate is 10% and Tax rate is 35%.	5	4	3
5C.Compare between service and management partnership structures under PPP based on the risk factor.25	5B	ABC Ltd., has a current ratio of 4:1 and quick ratio of 1:1. If excess of current assets over quick assets represented by inventories is Rs. 75,000, calculate current assets and current liabilities.	3	4	3
	5C.	Compare between service and management partnership structures under PPP based on the risk factor.	2	5	5