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Code No.: 17545 S N/O

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD Accredited by NAAC with A++ Grade

B.E. VII-Semester Supplementary Examinations, May/June-2023

Economics and Finance for Engineers

(Mech. Engg.)

Time: 3 hours

Max. Marks: 60

Note: Answer all questions from Part-A and any FIVE from Part-B

Part-A $(10 \times 2 = 20 \text{ Marks})$

Stem of the question		N	T		
Define demand.	+			<u>CO</u>	P
List out the types of elasticity of demand	2		1	1	9
	2		1	1	9
State the purpose of break-even analysis.	2	7	2	2	9
	2	4	1	2	9
Calculate Pay Rack Porial C	2	4		3	11
inflows for each year Rs.30000/ Depreciation is on straight line method	2	2		3	11
Discuss the purpose of balance sheet preparation in the corporate sector	2	4		4	1
Calculate Gross profit ratio if sales are Rs.275000, Gross Profit Rs. 27000/-Sales returns Rs.5000.	2				4
Expand the terms GST,CGST,SGST,IGST	evilor				
Mention the slab rates for a senior citizen for the current financial year as per the old regime.					12 12
Part-B $(5\times8 = 40 \text{ Marks})$					9.21
Distinguish between relatively elastic and relatively inelastic demand with suitable examples.	4	4	1		9
Explain the terms - internal economies and external economies and diseconomies of scale.	4	2	1		9
nd power (25% for factory and 75% for office) Rs.3000, Office Manager's	4 :	3	2		9
s.66000. Sales alculate P/V ratio and Proch	, ,		2		
	Define demand. List out the types of elasticity of demand. Explain skimming pricing method with example. State the purpose of break-even analysis. Compare the concepts of working capital Calculate Pay Back Period for a project requiring an outlay of Rs.80000, Estimated life of the project is 4 years, Tax rate is 50%. The estimated cash inflows for each year Rs.30000/Depreciation is on straight line method Discuss the purpose of balance sheet preparation in the corporate sector. Calculate Gross profit ratio if sales are Rs.275000, Gross Profit Rs. 27000/-Sales returns Rs.5000. Expand the terms GST,CGST,SGST,IGST Mention the slab rates for a senior citizen for the current financial year as per the old regime. Part-B (5×8 = 40 Marks) Distinguish between relatively elastic and relatively inelastic demand with suitable examples. Explain the terms - internal economies and external economies and eliseconomies of scale. Prepare a cost sheet from the information provided. Raw material independent of the consumed Rs.22000, Carriage inwards Rs.2000, direct wages Rs.3300, Fuel and power (25% for factory and 75% for office) Rs.3000, Office Manager's alary Rs.12000, Advertisement expenses Rs.3500, Opening stock of finished goods Rs.200, Sales alculate P/V ratio and Break-even point (in Sales value) are Rs.22000.	Define demand. List out the types of elasticity of demand. Explain skimming pricing method with example. State the purpose of break-even analysis. Compare the concepts of working capital Calculate Pay Back Period for a project requiring an outlay of Rs.80000, Estimated life of the project is 4 years, Tax rate is 50%. The estimated cash inflows for each year Rs.30000/Depreciation is on straight line method Discuss the purpose of balance sheet preparation in the corporate sector. Calculate Gross profit ratio if sales are Rs.275000, Gross Profit Rs. 27000/- Sales returns Rs.5000. 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2 -> E	Explain the long term sources of finance.	4	2	3	11
b) (Calculate NPV and state the acceptability of the project. Initial investment Rs.250000, Cost of capital 10%, Cash inflows (CFAT) for four years are Rs.80000, 95000, 110000, 122000.	4	3	3	11
		4	1	4	4
4. a) I	List the limitations of ratio analysis.	4	4	4	4
	Calculate Operating Cost ratio, Debtors turnover ratio, Net profit ratio from the information given. Cost of goods sold Rs.400000, Net sales Rs.700000(on credit), Administrative expenses Rs.75000, Selling Expenses Rs.2000, Sundry Debtors Rs.12000 Net Profit Rs.70000/-	4			
5. a)	Briefly explain about any 4 heads of income chargeable under Income Tax.	4	2	4	12
b)	Calculate Income from Salaries as per new regime if X receives a basic pay of Rs.25000 per month, DA Rs.3000 p.m out of which 25% enters into pay for service benefits, CCA Rs.200 p.m and HRA Rs.2200 p.m. X stays in his own house.	4	1	4	12
		4	2	1	9
16. a)	Explain the differences between Micro and Macro Economics.	4	2	2	9
b)	Discuss any four methods of pricing.	4	2	24	
17.	Answer any two of the following:				
a)	Calculate Accounting Rate of Return from the following data. The Profits before depreciation and tax for 3 years are 120000, 150000, and 175000. The cost of the machine is Rs.220000 with nil salvage value. Depreciation on straight line method and tax rate 50%.	4	4	3	11
	Test Patio and interpret the company's	3 4	4	4	4
b)	Rs.2000, Creditors Rs.6600, Prepaid expenses Rs.200, Bills payable Rs.500 Bank overdraft Rs.5000.	,			
c)	Calculate tax liability for Ashok for the current financial year as per of regime and new regime if his Gross Salary is Rs.1250000, Income from Business or Profession is Rs.220000, Income from House propert Rs.315000 and Dividend and Interest income are Rs.2000 and 750 respectively Suggest which regime is beneficial for Ashok assuming that had Rs.100000 contribution towards PPF, EPF contribution Rs.75000 are professional Tax Rs.2400 per annum.	y 0 ne	1 4	4	12

M: Marks; L: Bloom's Taxonomy Level; CO; Course Outcome; PO: Programme Outcome

J. Broom	Tursel 1	20%
i) Bloom	Blooms Taxonomy Level - 1	37.5%
ii)	Blooms Taxonomy Level – 2	42.5%
iii)	Blooms Taxonomy Level – 3 & 4	
