Sr. No: 011305

En 18/12

Dec 2023

B. Tech (IT) - III SEMESTER Economics for Engineers (HSMC-02)

Time: 3	Hours		Max. Mar	ks:75
Instruct	ions:	1.	It is compulsory to answer all the questions (1.5 marks each) of Part -A in short.	
		2.	Answer any four questions from Part -B in detail.	
42		3.	Different sub-parts of a question are to be attempted adjacent to each other.	
			PART -A	
Q1 (a)	What	ist	he difference between microeconomics and macroeconomics?	(1.5)
(b)	Defin a pro		te concept of supply in economics. What factors influence the supply of	(1.5)
(c)	What	doe	es the term "LPG" represent in the context of the Indian economy?	(1.5
			e the differences between a central bank and commercial banks in	(1.5)
			their functions, objectives, and roles within the financial system?	(10)
(e)	What	are	the primary factors of production?	(1.5)
(f)	Differ	ent	iate between internal and external economies of scale.	(1.5)
(g)	Expla	in	the break-even analysis and its significance in business decision-	(1.5)
	makir	ng.		
(h)	How	doe	s demand differ from the concept of wants or desires?	(1.5)
(i)	What	is d	lemand forecasting?	(1.5)
(j)	Expla	in t	the interplay between engineering and technology in the context of	(1.5)
	econo	mic	c development. In the discourse alternative graderials enough bear enough year	
			PART -B	
Q2	Comp	are	and contrast traditional and modern methods of capital budgeting.	(15)
	What	are	the key differences and advantages of modern methods such as NPV	
	and II	RR	over traditional methods like payback period?	
Q3 (a)	What	is t	he Production Possibility Curve, and how does it illustrate the concept	(7.5)

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How does it affect the evaluation of investment opportunities?

(b) What is the Time Value of Money, and why is it a critical concept in finance? (7.5)

of opportunity cost?

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- Q4 (a) Explain the Law of Demand and its basic principles. How does it describe the (7.5) relationship between price and quantity demanded for a product or service?
 - (b) Define the concept of elasticity of demand. What factors affect the elasticity of (7.5) demand, and how do they influence consumer behavior and market dynamics?
- Q5 (a) Define the concept of the cost of production. How do various types of costs, such as accounting costs, sunk costs, marginal costs, and opportunity costs, factor into cost analysis for a business?
 - (b) Discuss the relevance of depreciation in the industrial context. How does (5) depreciation impact a company's financial statements and long-term investment decisions?
 - (c) Provide a case study illustrating the "Make or Buy" decision that a company (5) might face.
- Q6 (a) Explain the difference between Law of Variable Proportions and the concept of (5) returns to scale.
 - (b) Explain the law of variable proportions and its stages in detail. (10)
- Q7 (a) Explain the main features of a perfectly competitive market, and contrast them (10) with those of a monopoly, monopolistic competition, and oligopoly. How do these market structures affect pricing and competition?
 - (b) Describe the nature and characteristics of the Indian economy. What are the (5) key sectors and factors driving economic growth in India?
