Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course: Business Economics I

Program: BBA-FT Course code: ECON1001 Time: 3 Hours Max. Marks: 100

Semester: I

Instructions: Mentioned under each section.

SECTION A 20 marks

Please	e only write a/b/c/d as an answer.		
	Statement of question	Marks	CO
1	Long run average cost (LRAC) curve shows the a. Minimum cost of producing various levels of output within a particular plant b. Minimum cost of producing various levels of output when plan size can be varied c. Profit maximizing levels of output d. Change in TC of producing various levels of output when all inputs can be varied.		
2	A perfectly competitive firm would shut down if a. AVC < AR b. AVC > AR c. AVC = MC d. AVC < MC	2	CO2
3	In a perfectly competitive market, a firm in the long run operates at a. AC = MC b. AR = MR c. MR=MC d. P=AR=MR=AC=MC b.	2	CO2,3
4	In case of super normal profit, position of AC curve is a. Above price line b. Below price line c. Tangent to price line d. Parallel to price line	2	CO2,3
5	Formation of monopoly due to economies of scale is known as: a. A natural barrier b. A legal barrier c. A structural barrier d. An efficiency barrier	2	CO1
6	For a monopolist firm, slope of AR is a. Equal to slope of MR b. Twice the slope of MR c. Half of the slope of MR d. Perfectly elastic AR	2	CO1
7		2	CO2

8	Analyzing the effect of change in gas prices on its demand keeping other factors					
	constant falls under the study of					
	a. General equilibrium analysis b. Microeconomics c. Macroeconomics	2	CO1			
	b. Normative economics					
9	Which of the following is not a long run concept?					
	a. Expansion path b. Isoquant c. Law of variable proportion d. Returns to scale	2	CO1			
10	Which of the following is valid for liner indifference curves?					
	a. Goods are perfect complementsb. goods are perfect substitutes					
	c. MRS for such curves is an increasing ratio d. MRS for such curves is in decreasing	2	CO1			
	ratio					
	SECTION B 20 ma	rks				
(Short	answer type questions; Do not write more than 2-3 sentences)					
1.	Mention two conditions for producer equilibrium.	2	CO2			
2.	Why does Marginal cost curve fall and rises sharply then Average cost curve?	2	CO2			
3.	How much market share will each firm have when both the firms are in equilibrium in Cournot's model?					
4.	Can two indifference curves intersect each other? Why.	2	CO1			
5	Mention two distinct features of 'monopolistic competition' that separates it from rest of the market structures.	2	CO1,2			
6.	Why do we study perfect competition? Is perfect competition possible in real world? 2					
7	What do you understand by term 'rational behaviour'	2	CO2			
8	It is difficult to enter an industry in monopolistic competition? Why?	2	CO2			
9	Is monopoly possible in modern economic world? How?	2	CO1			
10.	Define 'marginal rate of substitution'.	1	CO1			
	SECTION-C 30 ma	rks	_1			
(Atten	npt any 5 questions. Do not write more than one and a half page of answer script)					
1.	"The short run production function shows the maximum output a firm can produce		001.2			
	when only one of its inputs can be varied, other inputs remaining fixed". Explain while stating the most economic region of production and the reason for the same.	6	CO1,2			
2.	Define Indifference curve. Can it be elliptical in shape?	6	CO2,3			
3	Complete the following table on the basis of the figures given:					
	Output TC TFC TVC AFC AVC AC MC	6 CO1,2				

<u> </u>	0										
	1	200	100				100	-			
			100				100	_			
	2	290			95						
	3					123					
	4					110	71	_			
	5						80	_			
	6		420	20	84	103.8		-			
	7	751				107	128				
			001								
	8		801								
	9	1098	998				197				
	10			10	123.2						
								J			
4.		_	selling cost' o		_			in case of monopolistic petition?	2	6	CO2,3
5.		e difference help of di		Decrea	se in der	nand' ar	nd 'Co	ontraction in Demand	,	6	CO1,2
6.	How wi	ll a firm de					erfect	competition? State	1	6	CO1,2
	SE	CTION-D)	прет	i v C IIIui I				30 marks		
All the		are comp		rice c	of small	cars (sa	v Alte	o 800) by Maruti, o	thers		
1	there if firms in curve w	ai-Eon, Ta is decrease small car ill emerge	ta-Nano, Ch in the pric segment (m	nevrole e of s nentior situati	et—Beat, mall car ned above on? Whi	Nissan-l s segme e) may l ich mark	Dasturent by followater struck	n), may not follow; a Maruti (Alto 800), ". What shape of der ucture this situation r	other nand	.5	CO1, 2, 3, 4
2	Case St	udy									
	monopo	oly on the sa	ale of diamo	nds w	orldwide	. DeBee	rs had	ne late 1990s, had a exclusive rights to m	ining		CO2,3,

value of diamonds worldwide. Most diamonds were sold through its London office. By effectively managing a cartel of the major producers in Africa, DeBeers maximized profits by reducing the quantity of diamonds sold, thereby raising prices. As one might expect, as a near monopolist in the market for newly minded diamonds, DeBeers made enormous profits for many years.

New developments since that time have threatened DeBeer's monopoly. DeBeers also had the rights to sell diamonds mined in the Soviet Union. However, when the Soviet Union collapsed, DeBeers was unable to enforce those agreements. The flow of Russian diamonds increased dramatically, outside of DeBeers's control. Several jewelry companies, including Tiffany integrated backward into mining to avoid acquiring diamonds from DeBeers. In 2004 Namibia passed a law requiring miners to sell a percentage of their diamonds to local polishers, also outside of DeBeer's influence. Other African nations were increasingly challenging the dominance of DeBeers over the distribution and sale of such a valuable commodity mined in their countries. DeBeers's market share has gradually decreased over time.

A new development may be of even greater concern for DeBeers; synthetic diamonds. Natural diamonds are formed when carbon is under intense pressure under the Earth's surface of hundreds of millions of years. Recently, scientists have discovered how to create diamonds in less than a week by putting carbon under extremely high pressure in a laboratory. The first synthetic diamonds were deemed poor substitutes for natural diamonds in jewelry, but they did prove to be excellent substitutes in industrial applications (where diamonds are used for cutting because of their extremely hard surface). By 2007, synthetic diamonds had captured 90 per cent of the industrial diamond market from DeBeers. Worse still for DeBeers, makers of synthetic diamonds have improved their products to such an extent that they are now often indistinguishable from natural diamonds, even to professional jewelers.

It will be interesting to see what effects synthetic diamonds will have on the market for diamonds in jewelry. Currently, most jewelers and customers have a strong preference for natural diamonds, even though synthetic ones are chemically identical and indistinguishable. Apparently, the 'authenticity' of natural diamonds still as sentimental value. The market price of synthetic diamonds for jewelry is about 30 per cent of the price of the natural diamonds. However, preferences may change over time as consumers become more accustomed to synthetic diamonds and see that they are functionally equivalent and much cheaper. If that happens, DeBeers will lose a large part of its market power. DeBeers still control a large fraction of the supply of natural diamonds, but it may be forced to dramatically cut prices (and increase output it is willing to sell) in order to meet the new competition.

Answ	er the following questions based on case study:	3
1.	In which type of market structure is DeBeers operating in the case study.	
	Mention and define that market structure while mentioning it main characteristics.	2
2.	How De Beers decides the quantity to be produced and priced?	
3.	What kind of profits DeBeers earning in the present situation mentioned in the case? Explain with the help of diagram.	6
4.	Which factors are affecting market share of DeBeers? How will this effect profit of DeBeers over a period of time?	4