

INDIAN SCHOOL MUSCAT FINAL TERM EXAMINATION

SUBJECT: ECONOMICS

CLASS: XI Sub. Code:030

3 Hrs.

14.02.2019 SET A Max. Marks:80

EXPECTED VALUE POINTS AND SCHEME OF EVALUATION

Q.NO.	Answers	Marks (with split up)
1	A. Substitute goods	1
2	B. Price of good1 increases	1
3	Degree of responsiveness of quantity demanded for a given change in its price OR Quantity of a good that a consumer is willing to buy at a given price during a particular period of time	1
4	TFC remains constant OR Increasing retruns	1
5	Ed=(ΔQ/ΔP) x (P/Q); (x-1000) /-2 x 10/1000; 2=x-1000/-200; -400=x-1000; -400=x-1000; x=600. Ans=600	3
6	In perfectly competitive market, market price is constant and uniform. This gives total revenue curve the following features. a. TR increases as output increases b. TR has a constant slope, TR becomes an upward sloping straight line c. TR is zero at zero output so that it starts from origin OR	3
	If existing firms make abnormal profits in the short run, new firms will enter into the market attracted by the abnormal profits. Market supply increases. Price falls and abnormal profits are competed away. If existing firms are making loss, loss making firms can leave the market. Market supply decreases. Market price rises and the remaining firms will get normal profits. This implies that all firms will make only normal profits in the long run.	
7	PPC is a graphical medium of highlighting the central problems of 'what to produce' It shows various combinations of two goods that can be produced with available technologies and with given resources, which are fully efficiently utilized. The curve that gives maximum amount of two goods that can be produced in the economy with given resources and technology is called production possibility frontier. Diagram Diagram	4

	Good y C	
	D	
	O Good X E	
	At the point A only Good Y is produced no good X. At the point E only good X is produced but no Y. Points B, C, and D, show various combinations of both the goods.	
	Which combination to be produced, depends on the taste and preferences of the society.	
	OR	
	Marginal Rate of Transformation:- It is the rate at which quantity of output of one good sacrificed to produce one more unit of the other good.	
	If MRT is increasing in nature, PPC will be concave to the origin If MRT is constant, MRT will be a straight line	
8	If MRT is diminishing, PPC will be convex to the origin (Show with diagram) Price of its substitute good rises. a. Good A is substitute of good B if an increase in price of good B increases the demand for good A. These are used one in place of the other and provide the same satisfaction and can be used with same ease.	4
	Demand for a good will shift to right (increase) if price of its substitute rise. E.g. demand for tea and price of coffee. b. Good A is said to be complementary to B if an increase in price of good B decreases the demand for good A. Complementary goods are those goods which are demanded together to satisfy one want. Demand for good will decrease if price of complementary goods increases. E.g. demand for car and price of petrol.	
9	With diagram Two points of similarities between Monopolistic competition and Perfect competition Both the market have large number of sellers and buyers Both the market have freedom of entry and exit for the firms Two points of distinction between Monopoly market and Oligopoly market.	4
	Monopoly has only one firm operating in the market for a good. Oligopoly market has only a few firms operating in the market. Monopoly produces a unique good which does not have any close substitute. Oligopoly firms produce goods which are close substitutes or sometimes perfect substitutes	
10	A budget set describes the bundles that are available to the consumer. An indifference map shows her preferences over the available budget sets. Higher indifference curve shows higher level of satisfaction. A rational consumer always tries to move to the point on the highest indifference curve possible given her budget set. Budget Line represents all the possible bundles which cost exactly equal to the	6
	consumer budget. Optimum point would be located on the budget line. A point below the budget line cannot be optimum. The point above the budget line is not available with the given income.	

There could be some point on the budget line, which is preferred by the consumer. This optimum bundle of the consumer is located at the point where the budget line is tangent to the Indifference curve. At this point the absolute value of the slope of the IC (MRS) and that of the budget line (Price Ratio) are the same.

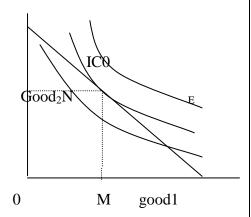
MRS=Price ratio. Or $\Delta X_2/\Delta X_1 = -P_1/P_2$

IC IC 2

'AB' is the budget line. At the point 'E' Budget line touches the highest possible IC

Consumer buys ON units of good₂ and

OM units of good. And OM units of good1



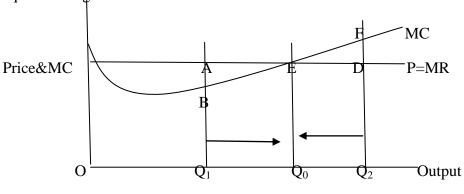
In perfect competition Market Price is constant so that it is equal to Marginal revenue.

Market price becomes addition to total revenue from an additional unit of output produced.

If Market price is more than the marginal cost, addition to total revenue is more the addition to total cost when firm increases the output. Firms can increase profits by increasing output. Firm cannot be at equilibrium because it wants to increase the output.

If market price is less than the marginal cost, addition to total cost is more than the addition to total revenue by increasing the output. Profit falls by increasing the output. On the other hand if the firm reduces the output, decrease in total cost is more than the decrease in revenue. Firm can increase the profits by reducing the output Firm cannot be at equilibrium because it wants to reduce the output.

This means that firm can make maximum profit when market price is equal to marginal cost and firm is at equilibrium when it produces a level of output when market price is equal to marginal cost.



At Q_1 output MP is more than the MC. Firm increases Output. By increasing the output to Q_0 , firm's gross profit will increase by an area ABE.

At Q_2 level of output MC is more than MP. Firm will reduce the level of output. By reducing the output, firm can increase the profit by reducing the output by an area EDF. At output Q_0 MC=MP, firm gets maximum profits and is at equilibrium.

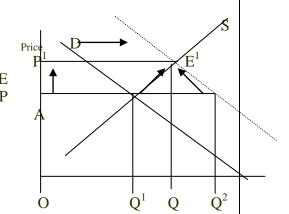
Shift in demand can be increase in demand (shift to right) or decrease in demand (shift to left). When demand shift top right equilibrium price increases and equilibrium quantity will increase. When demand shift to left equilibrium price and equilibrium quantity will decrease.

The direction of change in equilibrium price and quantity is same whenever there is a shift in demand curve.

 D^1

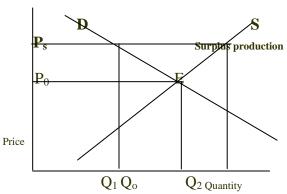
When demand shifts to right from DD to D¹D¹ the quantity demanded is more than the quantity supplied equal to 'EA' or (QQ²) at OP price. Excess demand

is created. Consumers are willing to pay a higher price. This pushes up the price to P1 A new equilibrium point is reached at E1. Equilibrium price increases to P^1 and equilibrium quantity to Q^2 .



OR

It is the minimum price fixed by the government on certain good. Government fixes the minimum price in order to prevent the price falling from certain level so that the producers are assured of reasonable returns. This is also called price support programme.



 P_o is equilibrium price at which demand=supply. If this price is too low for the producers so that they incur loss, government fixes a price floor or support price $P_{s.}$ It has the following consequences.

- a. <u>Surplus production:</u> At a higher price producers produce more but demand falls. This creates a surplus production equal to Q_1Q_2 .
- b. <u>Buffer Stock</u>:- In order to keep the support price government has to procure this surplus at the floor price. This lead to creation of buffer stock
- c. <u>Problem of subsidies:-</u> Government buys the goods at the support price and

	sells at a lower p Government has					erence	become	s subsid	ies.	
			I	PART B						
13	D. Class Mid Points									1
14	Discrete series: It can t Continuous series: Seri can also be broken into OR Chronological classifica Spatial classification: I	es capal infinite ation:cla	ole of ma gradation assification	nifesting ns on of data	g every condi	onceiva	ıble valı me	ue and it		1
15	It is difference between					•				1
16	It is the case of perfect the same direction and it	_			values of	both th	ne varial	oles cha	nge in	1
17	Production Consumption Distribution (with mea		•							3
18	Classes: 0-10 Frequencies: 4 X 5 Fx 20 $-X^- = \sum Fx/\sum F = 1440$	6 15 90 0/50= 28	20 25 500 8.8	350 OR	315	5	-60 3 55 165 / 1		I on I	3
	Marks Number of students	10 8	20 12	30 20	40 30	50 20	60	70	80	
	CF	8	20	40	70	90	104	115	119	
19	$Q1 = (N+)/4^{th}$ item. 11 Q2 = 2(N+1)/4 th item. Q3 = 3(N+1)/4 th item. Essential characteristics a. A questionnaire b. Series of question	(119+1 90 th ite s of a go should ons shou)/2=60 th m. Q3= od questi not be too ld move	item. Q =50 onnaire: o long. from gen	2 = 40 heral to s					4
	c. The questions sh d. Questions shoul e. Questions shoul f. Questions shoul g. Questions shoul	d not be d not us d not be	ambiguo e double a leading	ous to en negative g questic	able the	•			quickly	
	OR Sampling error: the diffits estimate				-		·			
	Non-sampling error: Al difficult to minimize no taking larger number of	n sampl	ing error	-	-					

	a. Errors i		_									
	b. Non res	•										
	c. Samplin	ng bias										
20	Sectors		Ex	-	ture (Rs	. Crore		Degree				4
	Agriculture				2800		28	100.8	}			
	Animal Husbar	ıdry		2:	500		25	90				
	Fisheries				1400		14	50.4				
	Forestry and Lo	ogging		1	200		12	43.2				
	Mining and Qu	arrying	g	2	100		21	75.6				
	Total 10000			100	360							
	Circle diagram	with s	egmer	nt divis	sion							
21	Length (X)		3	10 01 11	4		6		7		10	6
21	Weight (Y)		9		11		14		15		16	O
			9 -3									
	X				-2		0		1		4	
	Y		<u>-4</u>		-2		1		2	10/5	3	
	Xy X^2		12		4		0		2		_xy=30	
	X^2		9		4		0		1		x2=30	
	Y^2	-	16		4		1		4	9/∑	[y=34	
	X = 30/5 = 6											
	$r = \sum xy/\sqrt{x^2} \cdot \sqrt{y^2}$	= 30	/ \(\squad 30\)	x √34	=30/31	0.9 = 0.1	94					
		1	r		, ,			1	1	1	1	
22	Classes	0-4	4-8	8-	12-	16-	20-	24-	28-	32-	38-42	
				12	16	20	24	28	32	38		3+3
	Frequencies	3	8	14	30	40	28	14	8	3	2	
	Cf	3	11	25	55	95	123	137	145	148	150	
							•		•			
	M = N/2 th item	n. 150	/2 = 75	th item	. 75 th it	em lies	in the c	lass 16-	20.			
	L + (N/2-cf/f) c	: 16	+ (75-	55/40)	x 4; 1	6 + 2 =	18.					
	Diagram of Og											
23	Calculate Mear						oefficier	nt for th	ne folloy	ving		
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	distribution											21212
	Classes		5	15	25	3:	5	45	1			
			8						+			
	Frequencies		Ò	12	15	9		6 				
	CE		0	20	25	A		f=50	-			
	CF		8	20	35			50	-			
	/d/		20	10	0	10		20	4			
	f/d/		160	120	0	9		120				
							$\sum f/c$	d/=490	_			
				/ a -	_th.		_					
	Median (N+1)/					n. Medi	an = 25					
	$M.D = (\sum f/d/)$	_										
	Coefficient of I	M.D =	M.D.	Media/	n; 9.8/2	25; = 0.	39					
						OR						
	Calculate Stand	lard D	eviatio	on and	its coef	ficient.						
	Classes	5	- 15		15 - 25	2	5 – 35	35	- 45	45	- 55	

Frequencies	8			13	15		9	6	
_								$\Sigma F = 50$	
X	10			20	30		40	50	
Fx	80			260	450)	360	300	
D	-19)		-9	1		11	21	
D2	361			81	1		121	441	
Fd2	288	8	1	.053	15		1089	2646 ΣFd2=7991	
Coefficie	nt = SD	/Mea	n = 1	2.64/29			as the base	year using the	
following methoda. Laspeyer b. Paasche's	ds: 's Meth	od.							3+3
following methoda. Laspeyer	ds: 's Meth	od. d.		010					3+3
following methoda. Laspeyer	ds: 's Metho	od. d.	20	10			P_0q_1		3+3
following method a. Laspeyer b. Paasche's	ds: 's Metho s Metho	od. d.	20		P ₀ q ₀ 700	$\frac{P_1q_0}{1050}$		P ₁ q ₁ 600	3+3
following methoda. Laspeyer b. Paasche's	ds: 's Metho S Metho $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	od. d. 05	20 P ₁	010 Q ₁	P_0q_0	P ₁ q ₀	P_0q_1	P_1q_1	3+3
following method a. Laspeyer b. Paasche's Commodities A	ds: 's Metho s Metho P ₀ 100	od. d. O5 Q ₀ 7	20 P ₁ 150	10 Q ₁ 4	P ₀ q ₀ 700	P ₁ q ₀ 1050	P ₀ q ₁ 400	P ₁ q ₁ 600	3+3
following method a. Laspeyer b. Paasche's Commodities A B	ds: 's Metho 200 P ₀ 100 75	od. d. 05 Q ₀ 7 6	20 P ₁ 150 100	010 Q ₁ 4 8	P ₀ q ₀ 700 450	P ₁ q ₀ 1050 600	P ₀ q ₁ 400 600	P ₁ q ₁ 600 800	3+3
following method a. Laspeyer b. Paasche's Commodities A B C	ds: 's Metho s Metho P ₀ 100 75 90	od. d. 05 Q ₀ 7 6 11	20 P ₁ 150 100 90	10 Q ₁ 4 8 10	P ₀ q ₀ 700 450 990	P ₁ q ₀ 1050 600 990	P ₀ q ₁ 400 600 900	P ₁ q ₁ 600 800 900 240	3+3

END OF THE PAPER