Microeconomics 2601 February 2017 : F1 Assessment test for ECS2601

Section A:

Question 1:

Prices Changes	Qs = 200 + 5P	Qs = 5P	Qs = -200 + 5P
From 50 to 60	.58	1	3.70
From 60 to 70			
From 70 to 80			
From 80 to 90	.44	.65	1.23
From 90 to 100			
From 300 to 310	.16	.18	.21

Es = Change in quantity Supplied / Change in Price

(Qi + Q f) / 2 (Pi + Pf) / 2

Find Quantity of each first, then substitute into formula.

For supply curve Qs=200 = 5p	For supply curve Qs= 5p	For supply curve Qs=-200+5p
Quantity at price 50	Quantity at price 50	Quantity at p 50
Qs = 200 + 5(50)	Qs=5(50)	Qs=-200 +5(50)
Qs=450	QS=250	Qs=50
Quantity at price 60	quantity at price 60	Quantity at p 60
Qs = 200 + 5(60)	Qs= 5(60)	Qs=-200 + 5(60)
Qs=500	Qs=300	Qs=100
Es=(50/475) divided by (10/55)	Es=(50/275)/(.18)	Es= (50/75)/(.18)
Es= .11/.18	Es= .18/.18	Es= .67/.18
ES= .58	Es=1	Es= 3.70

Comment [21]: Well done, I agree with your answers

Question 2:

2.1

Cereal 0.40c Per tablespoon

Apple Juice 0.60c Per tablespoon

Equal Share so 1:1

40% to 60%

R 80 per month

40% of R 80 = R32 will be spent on Cereal 80 tablespoons of Cereal

60% of R 80 = R 48 will be spent on Apple Juice 80 tablespoons of Juice.

2.2



Comment [22]: I like the way you addressed this question- step by step. well

done

Q. 3

3.1

Q	TR	TC	ТР	AR	ATC	MR	МС
			TR - TC	TR /Q	TC/Q	Change in TR	Change in Total Cost
0	0	50	50	0	0	0	
1	300	300	0	300	300	300	250
2	575	525	50	287.50	262.50	275	225
3	825	725	100	275	241.60	250	200
4	1050	900	150	262.50	225	225	175
5	1250	1050	200	250	210	200	150
6	1425	1225	200	237.50	204.1 <mark>6</mark>	175	175
7	1575	1425	150	225	203.57	150	200
8	1700	1650	50	212.50	206.25	125	225
9	1800	1900	-100	200	211.11	100	250
10	1875	2175	-300	187.50	217.5	75	275

Comment [25]: Correct, just check my comments

Comment [26]: Just check your formula.... MR= change in TR/ change in Q

Comment [27]: Just check your formula.... MC= change in TC/ change in Q

Comment [28]: rond off....241.61

Comment [29]: rond off 204.1667 is 204.17

3.2

Perfect Competitive market ?

Comment [210]: ? Think about the conditions for a market to be classified as a "perfect competitive market"?

Comment [211]: At question 4, you have an error in row 8...if TC=114 and FC is 20...then TVC can not be 112???

this changes all your answers in row 8!

Units TFC TVC TC ATC AVC MC vc/q Change in TC/Q TC 14.6 13.5 8.5 13.2 9.2 13.3 13.71 10.85 14.25 4.2, 4.3, 4.4 J'r 4.3 Market price R 16 Profit Max where MR = MC 7 Units @ R 16 Equilibrium quantity is 7 × Units Profit = TR –TC R 112 – R96 = R 16 profit At this point Price & Cost per unit 4.3 D = P = AR = MR 4.4 D = P = AR = MR4.4 Price drops to R 12 Equilibrium Quantity is 5 Units. Made a loss of R -6 Quantity

4.4 Why should a firm still produce in the short run?

If you stop production, there will no revenue, firm will still have to cover its costs irrespective of earning revenue or not. If it continues production it will at least be able to cover its variable costs and some of its fixed costs. Until the market price increases again, when it can start making a profit.

ххх

Q. 4

4.1

4.3 Price R 16 - Made Profit

Units	TR	TC	TP
1	16	20	1.4
1	10	30	-14
2	32	36	-4
3	48	44	4
4	64	54	10
5	80	66	14
6	96	80	16
7	112	96	16
8	128	114	14

4.4 Price R 12 - Made Loss

Units	TR	тс	ТР
2.110			
1	12	30	-18
2	24	36	-12
3	36	44	-8
4	48	54	-6
5	60	66	-6
6	72	80	-8
7	84	96	-12
8	96	114	-18

Q. 5

- Firm A and B would choose to cut prices
- It is the dominant strategy
- If firm B cuts and Firm A Cuts Firm A would get 6
- If firm B colludes and frim A cuts Firm A would get 24
- It makes sense for firm A to cut
- Same logic applies to firm B

Comment [212]: I agree

Comment [213]: I agree

Comment [214]: Well done