

R11102 - Ashay Melekan

CSE - Vth Semester

Managerial Economics

$$FC = TVC \cdot \frac{1}{Q} \quad (AFV = TVC/Q)$$

$$TC = TFC + TVC \quad AC = TC/Q \quad AFC = TFC/Q \quad AVC = TVC/Q \quad MC = \Delta TC / \Delta Q$$

1)

Q	0	1	2	3	4	5	6
TVC	0	20	25	40	50	80	120

$$\& TFC = Rs : 200$$

Q	TVC	AVC	AFC	TC	AC	MC
0	0	Na	Na	200	Na	Na
1	20	20	200	220	220	20
2	25	12.5	100	225	112.5	5
3	40	13.33	66.67	240	80	15
4	50	12.5	50	250	62.5	10
5	80	16	40	280	56	30
6	120	20	33.33	320	53.33	40

2)

$$TFC = 55$$

Q	1	2	3	4	5
FC	25	90	110	135	170

Q	FC	TC	AC	AFV	AVC	MC	TVC
1	25	25	25	55	20	Na	20
2	90	90	45	22.50	17.5	15	35
3	110	110	36.67	18.33	18.33	20	55
4	135	135	33.75	13.75	20	25	80
5	170	170	34	11	23	35	115

3)

$$TFC = Rs 40$$

Q	0	1	2	3	4	5	6	7
FC	40	52	59	64	70	78	89	103

Q	FC	TVC	TC	AC	AFC	AVC	MC
0	40	0	40	Nq	8 Nq	Nq	Nq
1	52 12	12	52	52	40	12	12
2	59 19	19	59	29.5	20	9.5	7
3	64 24	24	64	21.3	13.3	8	5
4	70 30	30	70	17.5	10	7.5	6
5	78 38	38	78	15.6	8	7.6	8
6	89 49	49	89	14.8	6.6	8.1	11
7	103 63	63	103	14.7	5.7	9	14