



INDIAN SCHOOL AL WADI AL KABIR

Class: XI	Department: Commerce
WORKSHEET:2	Topic: Numerical Problems on Production, Cost and revenue

NUMERICALS:

SET: 1

1. The following table gives the MP of a particular product: Calculate TP and MP when it is known that TP at zero level of Lab is zero:

Lab	1	2	3	4	5	6
MP	50	110	150	180	180	150

2. Complete the following table:

Lab	0	1	2	3	4	5	6
TP	0	20	-	-88	-	-	-
MP	-	-	22	-	-	17	-
AP	0	-	-	22	-	-	20

3. Identify the three phases of the Law of Variable Proportions from the following schedule:

Units of Lab	1	2	3	4	5
Output	20	50	70	80	60

4. Compute TVC, TFC, AVC, AFC, ATC, MC from the following data if AFC at one unit of production is Rs 60:

Output	1	2	3	4	5	6	7	8
TC	90	105	115	120	135	160	200	260

5. Suppose a firm's total fixed cost is Rs 100 and the MC schedule is the following:

Output	1	2	3	4	5	6	7
MC	10	20	30	40	50	60	70

- i. Is the MC U shaped? ii. Derive AVC schedule. Will AVC curve be U shaped?

SET: 2

1. The following schedule gives TPL of labour. Calculate APL and MPL.

Labor	0	1	2	3	4	5
Output	0	15	35	50	40	48

2. The following schedule gives APL of labour. Calculate TPL and MPL. Given that TP at level of employment is zero.

Labor	0	1	2	3	4	5
APL	2	3	4	4.25	4	3.5

3. The following schedule gives MPL of labour. Calculate TPL and APL. Given that TP at level of employment is zero.

Labour	1	2	3	4	5	6
MPL	3	5	7	5	3	1

4. Calculate TVC AVC AFC SAC SNC:

Labor	0	1	2	3	4	5	6
TC	10	30	45	55	70	90	120

5. The following schedule gives the TC of the firm. AFC at 4 units of output is Rs 5 per unit. Find TVC TFC AVC AFC SAC and SMC for the corresponding values of output.

Labor	1	2	3	4	5	6
TC	50	65	75	95	130	185

6. A firm's SMC schedule is given below. TFC of the firm is Rs 100. Calculate TVC TC AVC SAC.

Labor	0	1	2	3	4	5	6
SMC	-	500	300	200	300	500	800