NUMERICALS

COST

Q. 1. A firm's total cost schedule is given in the following table:

Output (units)	0	1	2	3	4	5	6	7	8
Total Cost (in ₹)	40	120	170	180	210	260	340	440	550

(i) What is the total fixed cost of this firm?

(ii) Derive AFC, AVC, ATC, and MC schedules. **[NCERT] 4**

Q. 2. Complete the following table if the AFC at 1 unit of production is ₹ 60. **[NCERT] 4**

Output (Units)	TC (₹)	TFC (₹)	TVC (₹)	AFC (₹)	AVC (₹)	ATC (₹)	MC (₹)
1	90						
2	105						
3	115						
4	120						
5	135						
6	160						
7	200						
8	260						

Q. 3. Suppose the firm's TFC is ₹ 100 and the marginal cost schedule of a firm is following:

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

(i) Is MC curve 'U' shaped?

(ii) Derive AVC schedule. Will the AVC curve be 'U' shaped? Discuss why or why not? **[NCERT] 4**

Q. 4. From the following data calculate AFC, AVC and MC: **4**

Output	0	1	2	3	4	5
TC (in ₹)	40	100	120	130	150	190

Q. 5. From the following table calculate average variable cost of each given level of output: **[CBSE Delhi 2004] 4**

Output (Units)	1	2	3	4
Marginal Cost (₹)	40	30	35	39

Q. 6. From the following data on the cost of production of a firm calculate TFC, AFC, TVC, AVC and MC: **4**

Output (kg)	0	1	2	3	4	5	6
TC (in ₹)	60	80	100	111	116	130	150

Q. 7. From the following data on the cost of production of a firm calculate (i) average fixed cost and (ii) average variable cost of producing four units and the marginal cost of the fourth unit: **[CBSE Delhi 1999] 3**

Output (kg)	0	1	2	3	4
Total Cost (₹)	80	102	122	140	156