

SECTION-B

Q2). Solve the following LPP graphically :

$$\text{Minimize } Z = 5x_1 + 8x_2$$

Subject to the constraints :

$$x_1 \leq 4; \quad x_2 \geq 2; \quad x_1 + x_2 = 5; \quad x_1, x_2 \geq 0$$

Q3). Solve the following Transportation problem.

	M ₁	M ₂	M ₃	M ₄	M ₅	Supply
F ₁	2	5	1	4	3	10
F ₂	6	1	3	4	2	11
F ₃	3	5	1	3	4	13
Demand	6	8	7	9	8	

Q4). Solve the following Assignment problem.

	A	B	C	D
P	11	13	15	10
Q	14	16	10	12
R	18	16	14	13
S	12	11	9	15

Q5). Solve the following game theory problem.

	Player B			
		B ₁	B ₂	B ₃
	A ₁	3	-2	4
	A ₂	-1	4	2
	A ₃	2	2	6

Q6). What is meant by Economic Ordered Quantity? Discuss its utility in Inventory Control.

Q7). Discuss the concept of network analysis. Explain the PERT & CPM models and their utility.