

5th semester Mathematics (Honours)
Assignment, Paper - DSE-2

Total 20 Mark

1) Explain the difference between a transportation problem and an assignment problem. Explain situations where an assignment problem can arise. 6

2) Show that assignment problem is the special case of the transportation problem. 4

3) Alpha Corporation has four plants each of which can manufacture any one of four products. Product costs differ from one plant to another as do sales revenue. Given the revenue and cost data below, obtain ~~the~~ which product each plant should produce to maximize profit. 10

Plant	Sales rev (Rs.'000s) Product				Plant	Production Costs (Rs.'000s)			
	1	2	3	4		1	2	3	4
A	50	68	49	62	A	49	60	45	61
B	60	70	51	74	B	55	63	45	69
C	55	67	53	70	C	52	62	49	68
D	58	65	54	69	D	55	64	48	66

Submit latest by : 23rd July '2021.