

Assignment

B.Sc. Physical Science
1st year

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Sub - Transportation
and Network flow
problems.

Q.(1.) Define ~~Explain~~ the Transportation Problem and Explain

- (a) Least cost method
- (b) North west corner method
- (c) Vogel's Approximation method

Q.(2.) Define the Assignment problem and Explain the HUNGARIAN METHOD

Q.(3.) ~~Solve~~ Solve the following Transportation problem using (i) least cost method
(ii) North west corner method
(iii) Vogel's Approximation method

	D ₁	D ₂	D ₃	D ₄	Supply
S ₁	19	30	50	10	7
S ₂	70	30	40	60	9
S ₃	40	8	70	20	18
Demand	5	8	7	14	34

Q.(4.) Solve the following Assignment problem using HUNGARIAN METHOD

Employees					
Job	I	II	III	IV	V
A	10	5	13	15	16
B	3	4	18	13	6
C	10	7	2	2	2
D	7	11	9	7	12
E	7	9	10	4	13

Q.5) Solve the following problem using North-West corner method

Destination

	D ₁	D ₂	D ₃	D ₄	Supply
S ₁	3	1	7	4	300
S ₂	2	6	5	9	400
S ₃	8	3	3	2	500
Demand	250	350	400	200	1200

Source