

Unit 13 - Week 11

Course outline
How does an NPTEL online course work?
Week 0
Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9
Week 10
Week 11
<ul style="list-style-type: none"> <input checked="" type="radio"/> Lecture 51 : Urban Freight Planning: Theory <input checked="" type="radio"/> Lecture 52 : Urban Freight Planning: Demand Modelling <input type="radio"/> Lecture 53 : Urban Freight Planning: Logistics <input type="radio"/> Lecture 54 : Last Mile Logistics 1 <input checked="" type="radio"/> Lecture 55 : Last Mile Logistics 2 <input checked="" type="radio"/> Lecture Material <input type="radio"/> Quiz : Assignment 11 <input type="radio"/> Feedback for Week 11
Week 12
DOWNLOAD VIDEOS
Assignment Solution
Live Interactive Session
Text Transcripts

Assignment 11

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-12-02, 23:59 IST.

- 1) Easier data collection is associated with 1 point

- a. Truck based model
b. Commodity based model

- a.
 b.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

- 2) Which of the following is a macro-economic model? 1 point

- a. Commodity based model
b. Four stage model
c. Input-output model
d. Behavioral model

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

- 3) Freight flows are converted to truck flows using 1 point

- a. Volume factor
b. Weight factor
c. Carrying capacity factor
d. Payload factor

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

- 4) What is the optimal lot size of a company given, Annual demand = 5000 units, Ordering cost per lot = Rs 10, Holding cost = Rs 5 unit, Cost per item = Rs 50? 1 point

- a) 35
b) 28
c) 20
d) 400

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

- 5) A city has two industries namely coal and electricity. To produce INR 1 output Coal requires INR .50 worth of goods from Coal and INR .30 worth of Electricity. To produce INR 1 of Electricity requires INR .30 worth of Coal and INR .30 worth of Electricity. How much electricity should be produced to meet consumer demand of INR 40,000 worth of output of Coal and INR 28,000 worth of Electricity? 3 points

- a) 100,000
b) 140,000
c) 68,000
d) 28,000

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

- 6) Following is the cost matrix of a Transportation Problem 4 points

	D1	D2	D3	D4	Supply
A	11	13	17	14	250
B	16	18	14	10	300
C	21	24	13	10	400
Demand	200	225	275	250	

Calculate the initial basic feasible solution using North West corner rule, Least Cost method & Vogel's approximation method. Using the above methods what is the best case initial basic feasible solution obtained?

- a) 11000
b) 12075
c) 12000
d) 12200

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

- 7) Is the following initial basic feasible solution optimal? 4 points

	D1	D2	D3	D4
A	9 (45)	9	12 (30)	3 (25)
B	12	6 (80)	12 (45)	6
C	3 (75)	15	9	6

- a) Yes
b) No
c) Can't say

- a.
 b.
 c.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

- 8) A salesman needs to stop through cities A, B, C, D and E in one route. He wants to find the most efficient route among these stops. Below is a chart of the cost between each of the stops. What is the most efficient route? 5 points

	A	B	C	D	E
A	x	2	5	7	1
B	6	x	3	8	2
C	8	7	x	4	7
D	12	4	6	x	5
E	1	3	2	8	x

- a) A > C > B > D > E > A
b) A > B > C > D > E > A
c) A > B > D > C > E > A

- a.
 b.
 c.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.