

Unit 5 - week 4

Course outline

How does an NPTEL online course work?

week 1

week 2

week 3

week 4

Lecture 16:Plant Location & Layout: Methods for Selection of Site III

Lecture 17:Plant Location & Layout: Methods for Selection of Site IV

Lecture 18:Plant Layout: Purpose and Types of Layout

Lecture 19:Plant Layout: Types of Layout

Lecture 20:Plant Layout: Cellular and Process Layout

Quiz : Assignment 4

Solution of Assignment 4

week 5

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Weekly Feedback

Assignment 4

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

Due on 2020-02-26, 23:59 IST.

1) The new service facility is targeted to serve seven sell agencies in Delhi. The table - shows the coordinates for the center of each sell agency, along with the projected populations. Customers will travel from the seven sell agency centers to the new facility when they need that. Two locations being considered for the new facility are at (5.5, 4.5) and (7, 2). The best location according to total load-distance score is

No.	Sell agency	Coordinate (x,y)	Populations
1	A	(2.5, 4.5)	2
2	B	(2.5, 2.5)	5
3	C	(5.5, 4.5)	10
4	D	(5, 2)	7
5	E	(8, 5)	10
6	F	(7, 2)	20
7	G	(9, 2.5)	14

- F of total score of 168
- C of total score of 239
- F of total score of 239
- C of total score of 168

No, the answer is incorrect.
Score: 0

Accepted Answers:
F of total score of 168

2) The objective of total load distance method is

1 point

- To maximize the output product moving out of the facility
- To minimize the manpower resources moving in the facility
- To maximize the total weighted loads moving into and out of the facility
- To minimize the total weighted loads moving into and out of the facility

No, the answer is incorrect.
Score: 0

Accepted Answers:
To minimize the total weighted loads moving into and out of the facility

3) Center of gravity method is

1 point

- A method that determines the location of a facility that will minimize shipping cost and travel time to various destinations
- A method that determines the location of a facility closest to the most number of consumers
- A method that determines the location of a facility closest to the main supplier
- A method that determines the location of a facility in the middle-point of all suppliers

No, the answer is incorrect.
Score: 0

Accepted Answers:
A method that determines the location of a facility that will minimize shipping cost and travel time to various destinations

4) Need for selection of facility location arises when

1 point

- The existing business unit has outgrown its original facilities and expansion is not possible
- A business is newly started
- The lease expires and the landlord does not renew the lease
- All of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of these

5) Layout preferred for the production of very large ships

1 point

- Process layout
- Product layout
- Fixed-position layout
- Cellular layout

No, the answer is incorrect.
Score: 0

Accepted Answers:
Fixed-position layout

6) Layout in which raw material is fed in the first machine and the finished product comes out from the last machine is

1 point

- Process layout
- Product layout
- Fixed-position layout
- Cellular layout

No, the answer is incorrect.
Score: 0

Accepted Answers:
Product layout

7) The product layout primarily involves the use of

1 point

- Special purpose machine and skilled worker
- General-purpose machine and skilled worker
- General-purpose machine and semi-skilled worker
- Special purpose machine and semi-skilled worker

No, the answer is incorrect.
Score: 0

Accepted Answers:
Special purpose machine and semi-skilled worker

8) The advantages of product layout is

1 point

- So many variety of product can be produced
- Minimum material handling cost
- Products are produced in limited quantity
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Minimum material handling cost

9) Return on investment was determined as

1 point

- Total sales-Expenditure
- Profit/ Total investment
- Total sale/ Profit
- Total expenditure-Total profit

No, the answer is incorrect.
Score: 0

Accepted Answers:
Profit/ Total investment

10) Good plant layout helps in

1 point

- Minimum material handling
- Reduction in congestion
- Reduction in in-process inventories
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above