

Unit 8 - Week 7

Course outline

How does an NPTEL online course work?

Week 1

Week2

Week 3

Week 4

Week 5

Week 6

Week 7

Aggregate planning Techniques-I (Introduction)

Aggregate planning Techniques-II (Examples)

Aggregate planning Techniques-III (Problems)

Production Planning Problems using LP

Nature of Quality and Evolution of Quality Management-I (Product Quality Dimensions)

Quiz : Assignment 7

Solution for Assignment 7

Week 8

Week 9

Week 10

Week 11

Week 12

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Assignment 7

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

Due on 2020-03-18, 23:59 IST.

1) Which of the following is true in connection of aggregate planning for services? 1 point

- Demand is difficult to predict
- Capacity is simple to predict
- Demand is difficult to predict while capacity is simple to predict.
- None of the above

No, the answer is incorrect. Score: 0

Accepted Answers: Demand is difficult to predict

2) The main cost involved in chase strategy of aggregate planning is 1 point

- Holding of inventory
- Hiring and layoff of workers
- Back orders
- All of the above

No, the answer is incorrect. Score: 0

Accepted Answers: Hiring and layoff of workers

3) Which of the following statements concerning aggregate planning is true? 1 point

- When a firms wants to minimize changes in production, a chase strategy is best
- When a firm wants to emphasize on stability in its work force, a level production strategy is best
- When a firm wants to emphasize on plant utilization, a chase strategy is best
- When a firm wants to minimize inventory investment, a level production strategy is best

No, the answer is incorrect. Score: 0

Accepted Answers: When a firm wants to emphasize on stability in its work force, a level production strategy is best

4) Consider following data 1 point

Quarter	Forecast
1	80,000
2	110,000
3	100,000
4	110,000

Hiring Cost	\$100 per worker
Firing Cost	\$150 per worker
Inventory Carrying Cost	\$ 5 per unit
Production Per Employee	1000 units per/qtr
Beginning Work Force	100 workers

Using above data, which of the following statements is true if the company maintains a chase demand strategy?

- The cost of the chase demand plan is \$8,000
- There are 30 workers hired in quarter 3
- There are 30 workers fired in quarter 1
- There are 30 workers hired in quarter 2

No, the answer is incorrect. Score: 0

Accepted Answers: There are 30 workers hired in quarter 2

5) Aggregate production planning involves all of the following except 1 point

- hiring and laying off workers
- subcontracting work out
- building up inventories
- purchasing new equipment

No, the answer is incorrect. Score: 0

Accepted Answers: purchasing new equipment

6) Variations in demand can be met by all of the following except 1 point

- using part-time workers
- back-ordering
- maintaining resources for high demand levels
- All of the above are ways to handle variations in demand

No, the answer is incorrect. Score: 0

Accepted Answers: All of the above are ways to handle variations in demand

7) Which of the following are considered a pure strategy for meeting demand? 1 point

- producing at a constant rate and using inventory to absorb fluctuations
- hiring and firing workers and using part-time help
- increasing or decreasing working hours and subcontracting
- maintaining resources for high demand and backordering when necessary

No, the answer is incorrect. Score: 0

Accepted Answers: producing at a constant rate and using inventory to absorb fluctuations

8) Which of the following is not a disadvantage to a strategy of using overtime to handle variations in demand? 1 point

- premium is paid for overtime work
- possible tired and less efficient work force
- cost of holding inventory
- possibility that labor shortages will still occur

No, the answer is incorrect. Score: 0

Accepted Answers: cost of holding inventory

9) Consider following data 1 point

Quarter	Forecast
1	80,000
2	110,000
3	100,000
4	110,000

Hiring Cost	\$100 per worker
Firing Cost	\$150 per worker
Inventory Carrying Cost	\$ 5 per unit /qtr
Production Per Employee	1000 units per/qtr
Beginning Work Force	100 workers

Using above data, which of the following statements is true if the company maintains a level production strategy?

- The total number of units inventoried for the 4-quarter period is 40,000 units
- The cost of the level production plan is \$18,000
- There are 12,500 units inventoried in quarter 3
- A work force of 14 workers is maintained during the 4-quarter period

No, the answer is incorrect. Score: 0

Accepted Answers: The total number of units inventoried for the 4-quarter period is 40,000 units

10) Which of the following is not a dimension of product quality? 1 point

- Performance
- Reliability
- Price
- Serviceability

No, the answer is incorrect. Score: 0

Accepted Answers: Price