

Unit 7 - Week 6

Course outline

How does an NPTEL online course work?

Week 1

Week2

Week 3

Week 4

Week 5

Week 6

● Lot Sizing in MRP Systems

○ Material Requirements Planning (MRP): Examples-I

○ Material Requirements Planning (MRP): Examples-II

○ Aggregate Sales and Operations Planning-I (Intermediate & Aggregate Planning)

○ Aggregate Sales and Operations Planning-II (Demand & Supply Options)

○ Quiz : Assignment 6

○ Solution of Assignment 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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Assignment 6

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

Due on 2020-03-11, 23:59 IST.

1) Which of the following best describes aggregate planning? 1 point

- The link between intermediate-term planning and short term operating decisions.
- A collection of objective planning tools.
- Make or buy decisions.
- An attempt to respond to predicted demand within the constraints set by product, process, and location decisions.

No, the answer is incorrect.
Score: 0

Accepted Answers:
An attempt to respond to predicted demand within the constraints set by product, process, and location decisions.

2) Effectively using labour resources during periods of peak demand and low demand would be the goal of aggregate planners in: 1 point

- Manufacturing
- Military
- Libraries
- Financial services

No, the answer is incorrect.
Score: 0

Accepted Answers:
Manufacturing

3) Aggregate planning requires which of the following information? 1 point

- (i) A forecast of expected demand
- (ii) Current levels of inventory
- (iii) Policies regarding employment levels

- (ii) only
- (i) and (ii) only
- (i) and (iii) only
- (i), (ii) and (iii)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(i), (ii) and (iii)

4) Which of the following is not a basic option for altering the availability of capacity in a service environment? 1 point

- Overtime
- Hiring/ layoff
- Part time
- Inventory

No, the answer is incorrect.
Score: 0

Accepted Answers:
Inventory

5) Which one of the following is not a basic option for altering demand? 1 point

- Promotion
- Backordering
- Pricing
- Subcontracting

No, the answer is incorrect.
Score: 0

Accepted Answers:
Subcontracting

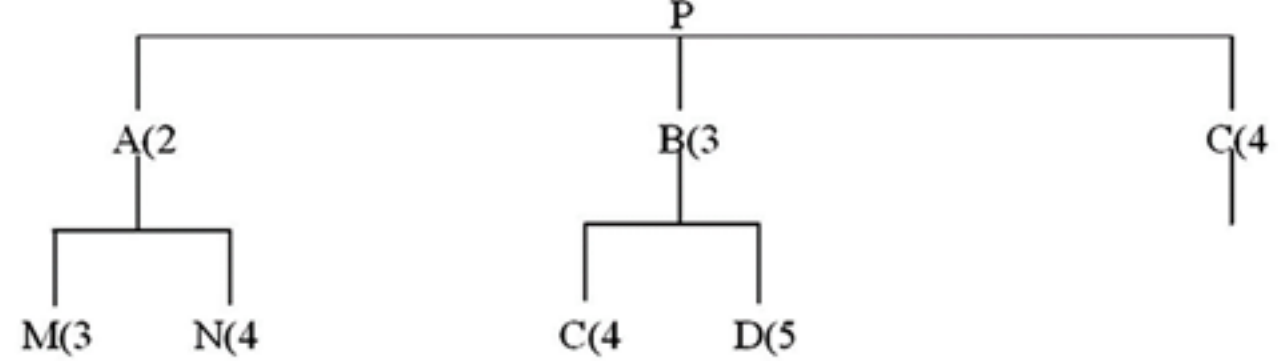
6) A visual depiction of the subassemblies and components that are needed to produce and/or assemble a product is called a(n): 1 point

- Assembly time chart
- Product structure tree
- MRP II
- Gantt chart

No, the answer is incorrect.
Score: 0

Accepted Answers:
Product structure tree

7) Refer to this product tree: 1 point



If 17 Ps are needed, and no on-hand inventory exists for any items, how many Cs will be needed?

- 34
- 136
- 204
- 272

No, the answer is incorrect.
Score: 0

Accepted Answers:
272

8) Bunny Helpers, Inc., has just received an order for 100 Deluxe Easter Baskets, which must be ready for delivery at the start of week 6. An MRP planner has prepared the following table showing product structure, lead times (orders are lot-for-lot), and quantities on hand: 1 point

Deluxe Easter Basket BOM	Lead Time	On-Hand
Deluxe Easter Basket	1 week	10
Dark Chocolate Truffles (2 per)	2 weeks	30
Carved Chocolate Eggs (4 per)	1 week	50

Each Deluxe Basket contains two dark chocolate truffles and four carved chocolate eggs; additionally one bottle of Alka-Seltzer is included for those who overindulge.

What is the net requirement for dark chocolate truffles to fill this order?

- 100
- 140
- 150
- 180

No, the answer is incorrect.
Score: 0

Accepted Answers:
150

9) Bunny Helpers, Inc., has just received an order for 100 Deluxe Easter Baskets, which must be ready for delivery at the start of week 6. An MRP planner has prepared the following table showing product structure, lead times (orders are lot-for-lot), and quantities on hand: 1 point

Deluxe Easter Basket BOM	Lead Time	On-Hand
Deluxe Easter Basket	1 week	10
Dark Chocolate Truffles (2 per)	2 weeks	30
Carved Chocolate Eggs (4 per)	1 week	50

Each Deluxe Basket contains two dark chocolate truffles and four carved chocolate eggs; additionally one bottle of Alka-Seltzer is included for those who overindulge.

How many dark chocolate eggs should be ordered?

- 310
- 450
- 500
- 550

No, the answer is incorrect.
Score: 0

Accepted Answers:
310

10) Net requirements for component J are as follows: 60 units in week 2, 40 units in week 3, and 60 units in week 5. If a fixed-period, two-period lot-sizing method is used, what will be the quantity of the first planned receipt? 1 point

- 60
- 120
- 180
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
None of the above