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Management - Master Planning of Resources**

APICS CPIM-MPR

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QUESTION NO: 1

The most effective way to cope with uncertainty of demand and to improve customer service is to reduce:

- A. lead times.
- B. backlogs.
- C. safety stock.
- D. product options.

ANSWER: A

QUESTION NO: 2

During which of the following process steps of sales and operations planning would resource planning be carried out?

- A. Demand planning phase
- B. Supply planning phase
- C. Pre-sales and operations planning meeting
- D. Executive sales and operations planning meeting

ANSWER: B

QUESTION NO: 3

Production is being planned to emphasize the utilization of a critical and very expensive piece of capital equipment. Which of the following production planning strategies should be used?

- A. Chase
- B. Level
- C. Cost-based
- D. Combination

ANSWER: B

QUESTION NO: 4

Which of the following criteria is used to determine safety stock in a distribution center?

- A. Economic order quantity
- B. Seasonal index value
- C. Alpha factor level
- D. Probability of stocking out

ANSWER: D

QUESTION NO: 5

In an assemble-to-order environment, which of the following factors is most significant in determining which items should be master scheduled?

- A. Length of the master schedule horizon
- B. Number of levels in the bill of material
- C. Number of product options
- D. Size of the forecast error

ANSWER: C

QUESTION NO: 6

The question below is based on the following production environment information:

	Production Volume	Product Variety	Production Lead Time	Operations per Product	Production Resources
Facility A	High	High	Long	Many	Many
Facility B	High	Low	Short	Few	Many
Facility C	Low	High	Long	Many	Few
Facility D	Low	Low	Short	Few	Few

In which facility would product unit costs most likely be reduced through a setup reduction program?

- A. Facility A
- B. Facility B
- C. Facility C

D. Facility D

ANSWER: C

QUESTION NO: 7

The most appropriate approach for developing forecasts for strategic business planning is:

- A. customer inputs.
- B. quantitative statistical methods.
- C. economic growth models.
- D. casual analysis.

ANSWER: C

QUESTION NO: 8

Which of the following actions is most effective when planning production of menu items in a restaurant environment?

- A. Maintain usage history of ingredient items.
- B. Estimate future guest counts and item sales.
- C. Make today's schedule the same as yesterday's sales.
- D. Base the plan on the current ingredients inventory level.

ANSWER: B

QUESTION NO: 9

The following question is based on the following information:

Item: X		Run Date: Today							
Lead Time: 0		Lot Size: 20				Data Date: Today			
On-hand: 10		Safety Stock: 3				Demand Time Fence: 0			
		Planning Time Fence: 4							
Period	1	2	3	4	5	6	7	8	9
Forecast	10	10	15	10	10	5	10	10	15
Customer orders	5	2	1						
Projected available balance									
Available-to-promise									
Master production schedule	20		20		20				

The master production schedule quantity that should be placed in Period 7 is:

- A. 00.
- B. 10.
- C. 13.
- D. 20.

ANSWER: D

QUESTION NO: 10

Which of the following forecasting methods is most appropriate for projecting demand for a product family?

- A. Single exponential smoothing
- B. Simple average
- C. Focus
- D. Pyramid

ANSWER: D