

Course No: MAN3306  
Course Title: Production & operations management  
Date: 19 Nov 2011  
No. of Questions: 3  
Time: 1 hour

University of Palestine



Midterm Exam  
1<sup>ed</sup> quadmester 2011  
Total Grade: 20

Lecturer Name: Yousif Alagha  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: Business & Finance  
Dep. / Specialist: Business  
Using Dictionary (No)

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**IT IS COMPULSORY TO ANSWER ALL QUESTIONS**

**First Question (5 marks)**

Determine if each of the following statement is true (T) or false (F):

1. Operations management important to increase the need for investment.
2. Production is the transformation of raw materials into finished goods for sale.
3. Job-shop production system characteristics high variety and volume, while it requires limit layout space.
4. Process-oriented layout - deals with low-volume, high-variety production.
5. Retail slotting characterized with an increasing number of new products.
6. Through Fixed-position layout workers and equipment move to site.
7. U-shaped line consider a work sell layout may reduce employee movement and space requirements while enhancing communication, increase the number of workers, and facilitating inspection.
8. Productivity is the ratio of outputs divided by the inputs.
9. Naive Forecasts provides high accuracy.
10. Jury of Executive Opinion forecasting depends on managerial experience.

1	2	3	4	5	6	7	8	9	10

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**Second Question (10 Marks)**

1. What are the differences between the quantitative and qualitative forecasting approach?

2. What are the factors which influences of product life cycle through the forecasting process?

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3. Explain briefly the concept, advantages, and disadvantages of product-oriented layout.

### **Third question (5 Marks)**

The Critical success factors to determine the best location for car assembly factory are:

Labour availability and attitudes with the weight of (0.27), per capita income with the weight of (0.31), tax structure with the weight of (0.18), education and health with the weight of (0.09), and government restrictions and regulations with the weight of (0.15).

While you are required to chose location A or B, the score of each location comparable to the critical success factors are:

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Critical success factors	Score (out of 100)	
	Location A	Location B
Labour availability and attitudes	70	60
per capita income	50	60
tax structure	85	80
education and health	75	70
government restrictions and regulations	77	70

Utilizing the Factor-rating method find out the best location for the car factory.

End of Questions

Good Luck