THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

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JANUARY – APRIL 2019 TRIMESTER

FACULTY OF COMMERCE

DEPARTMENT OF MARKETING AND MANAGEMENT

ODEL PROGRAMME

CMM 412: PRODUCTION AND OPERATIONS MANAGEMENT

Date: APRIL 2019 Duration: 2 Hours
INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions

- Q1. a) You are a member of a management team that has organized an orientation for new employees you have been assigned a responsibility by the team to give a brief on the objectives of production management.

 Explain what you would include in your brief. (10marks)
 - b) Quality of goods and services play a major role in determining the competitiveness of an organization in the market. Explain (10marks)
 - c) Using a diagram explain the new product development process. (10 marks)
- Q2. a) Lang'ata Company LTD is in the process of concluding its decision on establishing a new facility location . Explain the reasons that can be attributed to this decision. (10marks)
 - b) Explain ways in which demand forecasting promotes effectiveness in production management. (10marks)
- Q3. a) The objective of a facility layout plan is to arrange facilities in a way that ensures, a smooth flow of work, people, and information throughout the system. Discuss the dimensions associated with this facilities. (10marks)

b) ABC Enterprise undertook a demand forecast in order to project their level of sales for the next 6yrs. Use the table below to answer the questions that follow. (10marks)

Period (yrs).	Actual Demand.	Forecasted Demand
' 000000'	'000000'	
1	6	5
2	5	6
3	7	5.5
4	8	6
5	9	6.5
6	6	-

What is the demand forecast for year 6:

- 1. Using 4 period moving average?
- 2. Using exponential smoothing with α =0.2?
- Q4. a) Write short notes on

i) B.O.Mii) Seasonal demand.iii) Benchmarking.(5 marks)(2 marks)(3 marks)

b) Production and operations are systems which need each other. Discuss

(10marks)

END