



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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**MAIN EXAMINATION**

**SEPTEMBER – DECEMBER 2019 TRIMESTER**

**SCHOOL OF BUSINESS**

**DEPARTMENT OF MARKETING AND MANAGEMENT**

**REGULAR PROGRAMME**

**CMM 412: PRODUCTION AND OPERATIONS MANAGEMENT**

**Date: DECEMBER 2019**

**Duration: 2 Hours**

**INSTRUCTIONS: Answer Question ONE and any other TWO Questions**

- Q1. a) “Production managers are more than ever before at the centre of competitiveness of an organization”. Discuss. **(5 Marks)**
- b) A project consists of activities from A to j as shown in the following table. The immediate predecessor(s) and the duration in weeks of each of the activities are given in the same table as shown.

Activity	Immediate predecessor(s)	Duration ( Weeks)
A	-	4
B	-	3
C	A,B	2
D	A,B	5
E	B	6
F	C	4
G	D	3
H	F,G	7
I	F,G	4
J	E,H	2

Required:

- i) Draw the project network **(5 Marks)**
- ii) Identify the critical path and calculate the corresponding project completion time. **(5 Marks)**
- iii) Also find the total float as well as free float for each of the non-critical activities. **(5 Marks)**

Q2. Regarding quality management, answer the following:

a) Assume you have a big restaurant in Nairobi Town. What can high quality of product and service mean to your business, and how can contribute to the success of your business? Explain by giving examples. **(10 marks)**

b) What you understand by the term total quality management (TQM)? What are the basic principles that guide it? Explain each of the steps. **(10 marks)**

Q3. As a foreign investor, you are looking forward to setting up a manufacturing plant in East Africa. How do you make a choice of a country, a community within the country, and a particular site? Explain. **(20 Marks)**

- Q4. a) Define the term project. Using relevant examples, briefly discuss the various features of a project. **(10 Marks)**
- b) Identify the principal resources (inputs), the type of transformation process and principal output (goods or services) in each of sectors below:
- i. Restaurant
  - ii. Banking
  - iii. Hospital
  - iv. Supermarkets
  - v. Church
  - vi. Automobile factory
  - vii. Bakery
  - viii. Taxi services
  - ix. University
- (10 Marks)**

**BONUS QUESTION**

**(5 Marks)**

If it takes 5 machines 5 minutes to make 5 gadgets, how long would it take 100 machines to make 100 gadgets?

**\*END\***