



# TECHNICAL UNIVERSITY OF MOMBASA

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SCHOOL OF BUSINESS

DEPARTMENT OF MANAGEMENT SCIENCE

UNIVERSITY EXAMINATION FOR:

MSc PROCUREMENT AND SUPPLY CHAIN MANAGEMENT

BPC 5103: SUPPLY CHAIN MANAGEMENT

END OF SEMESTER EXAMINATION

SPECIAL/SUPPLEMENTARY EXAMINATIONS

SERIES: AUGUST 2019

TIME: THREE HOURS

DATE: AUGUST 2019

## **Instructions to Candidates**

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of FIVE questions. Attempt Question One and Any other Three Questions.

**Do not write on the question paper.**

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## **QUESTION ONE**

- a) Clearly explain the meaning of supply chain and supply chain management and discuss the main objectives of supply chain management. (14 marks)
- b) The following data relates to the quantities demanded of a certain product at Minimax Limited for the months of July to November, 2015. Using the weighted average method, calculate the demand to be expected in the month of December 2015, with the weights; 0.4, 0.275, 0.175, 0.10 and 0.05 (14 marks)

Period	Demand Quantities

July 2015	10
August 2015	25
September 2015	30
October 2015	35
November 2015	50

- c) Explain the advantages of using the exponential smoothing method in demand forecasting (12 marks)

### **QUESTION TWO**

- a) In making sourcing decisions, the buyer has to decide on whether to purchase from a single supplier or from multi suppliers. With examples, explain the benefits of effective sourcing decisions (10 marks)
- b) With clear examples, explain the reasons why firms hold inventory (10 marks)

### **QUESTION THREE**

- a) With clear examples, explicitly explain to Mr. Wafula, the intern in your organization, the factors that he should consider when selecting the firm's distribution channels. (8 marks)
- b) Supply chain management is as old as civilization. However, there are movements that are generally accepted as representing evolution of the discipline. Clearly discuss the stages that explain the evolution of supply chain management (12 marks)

### **QUESTION FOUR**

- a) Inventory is one of the logistical supply chain drivers. Explain the components of inventory decisions and highlight how each of the decisions can be used to achieve both efficiency and responsiveness. (10 marks)
- b) With clear examples, explain the following concepts and their application in inventory management.
- i) Just in Time (JIT) systems (5 marks)
  - ii) Enterprise Resource Planning (ERP) (5 marks)

### **QUESTION FIVE**

- a) What are the challenges faced in implementing information technology in supply chain management? Suggest some solutions to those challenges. (8 marks)
- b) With examples, discuss the different types of supply chains (12 marks)