



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF BUSINESS & ECONOMICS**  
**UNIVERSITY EXAMINATION FOR MASTER OF LOGISTICS AND SUPPLY CHAIN**  
**MANAGEMENT**  
**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2024/2025 ACADEMIC YEAR**  
**MAIN & KISUMU CAMPUS**

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**COURSE CODE: MLS 5112**

**COURSE TITLE: OPERATIONS OF LOGISTICS SYSTEMS**

**DATE: 30/04/2024**

**EXAM SESSION: 2.00 – 5.00 PM**

**DURATION: 3 HOURS**

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**INSTRUCTIONS**

- 1. Answer QUESTION ONE and any OTHER TWO questions**
  - 2. Show ALL your workings and be as NEAT as possible.**
  - 3. Candidates are advised not to write on the question paper**
  - 4. Marks allocated to each question are shown at the end of the question.**
- *Answer Question One and any other Two Questions.***

### **Question One**

- a) Discuss how the logistics management has assisted organizations in meeting their long range plans. [5 marks]
- b) Define what is vehicle routing and vehicle scheduling and its importance to an organization. [8 marks]
- c) Describe the disadvantages of sea transport. [5 marks]
- d) What is containerization? Discuss its role in transportation management? [6 marks]
- e) What is the role of distribution centers and warehouses? [6 marks]

### **Question Two**

- a) Effective distribution requires that an appropriate mode of transport be used in the transportation of the good so that they reach their destination. Explain the factors pertinent when choosing the mode of transport. [10 marks]
- b) Discuss in detail the logistics components of customer service. [10 marks]

### **Question Three**

- a) Define Reverse Logistics and the reasons behind Reverse Logistics. [10 marks]
- b) Discuss any five challenges of adopting ICT in logistics and transportation management amongst many Kenyan firms. [10 marks]

### **Question Four**

- a) Explain the role of transportation in Logistics and supply chain management. [10 marks]
- b) Discuss the importance of phases of logistics in an organizations value chain process. [10 marks]

### **Question Five**

- a) Define physical distribution and the advantages of having an effective distribution system. [10 marks]
- b) There are several factors that affect logistics. These issues need to be anticipated prepared for and taken advantages of for a company to be successful in today's market. Discuss these issues under the following heading; [10 marks]
  - i) External issues
  - ii) Internal issues
  - iii) Performance issues
  - iv) System structure issues
  - v) Technology integration issues.