

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

BACHELOR OF SCIENCE IN ENGINEERING

LOGISTICS AND SYSTEM ANALYSIS IN TRANSPORTATION

SERIES.....

TIME : 2HRS

INSTRUCTIONS TO CANDIDATES:-

You should have the following for this examination:-

1. Pocket calculator
2. Answer booklet

This paper consists of five questions in two sections A and B.

Answer question 1 (compulsory) and any other two questions in section b.

Maximum marks for each part of the question are as shown below.

This paper consist of two printed page

SECTION A: COMPULSORY

1. (a) (i) Explain in details what logistic is concerned with . (6 marks)

(ii) Describe the role played by a logistics manager in a logistic company (6marks)

- (b) With the aid of a flow chart explain the logistic functional structure (8marks)

- (c) Describe the main element of logistics (10 marks)

SECTION B: ANSWER ANY TWO QUESTIONS

2. Describe the four main problems that are encountered in vehicle routing and scheduling

(20 marks)

3. (a) Explain the total logistics concept (10 marks)

(b) Describe importance of the vehicle capacity in its daily operations.

Support your description with a hypothetical example. (10 marks)

4. (a) Differentiate between logistics and supply chain management (12 marks)

(b) Describe the policy measures that affect logistics operation within the east African countries. (8 marks)

5. (a) Describe the steps that are followed to hire temporary staff. (5 marks)

(b) Describe the three main traditional logistics areas of responsibility.(5 marks)

(c) Describe the following equipment used in logistics operation .

i. Reach stack

ii. Gripper lift (10 marks)