



MURANGA UNIVERSITY COLLEGE

(A Constituent College of Jomo Kenyatta University of Agriculture & Technology)

MAIN CAMPUS

ORDINARY UNIVERSITY EXAMINATION

2014/2015 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE OF

BACHELOR OF PROCUREMENT AND SUPPLIES MANAGEMENT

COURSE CODE: HPS 2209

COURSE TITLE: PRODUCTION AND OPERATIONS MANAGEMENT

DATE: 24TH APRIL, 2015

TIME: 9.00-11.00A.M

INSTRUCTIONS

Question one is compulsory

Answer any other two questions

QUESTION ONE

- a) Discuss each of the following terms related to the historical evolution of production and operations management
- i) Industrial revolution (3marks)
 - ii) Scientific management (3marks)
 - iii) Division of labour (2marks)
 - iv) Growth of technology (2marks)
- b) Explain any four major differences between manufacturing operations and service operations (8marks)
- c) Discuss three advantages that quantitative techniques for forecasting have over Qualitative techniques (3marks)
- d) Bora bora has an annual demand for material of 360,000 units. The cost price is sh 30 per unit. Storage cost is 20% of stock value. Ordering costs is sh 180 per order.

Calculate

- i. Economic order quantity (3marks)
- ii. Number of orders (2marks)
- iii. Total cost of holding stock (4marks)

QUESTION TWO

- a) Describe the stages of product development (8marks)
- b) While preparing a plant layout, the layout engineer has to remember some factors which influence the type of layout. Discuss any six such factors (12marks)

QUESTION THREE

Whatever may be the project, to plan a materials handling program certain basic or controlling factors influence such decisions. Explain any five such factors (20marks)

QUESTION FOUR

- a) Enumerate five factors that determine production capacity in a manufacturing concern (10marks)
- b) Discuss three advantages and two disadvantages of standardization (10marks)