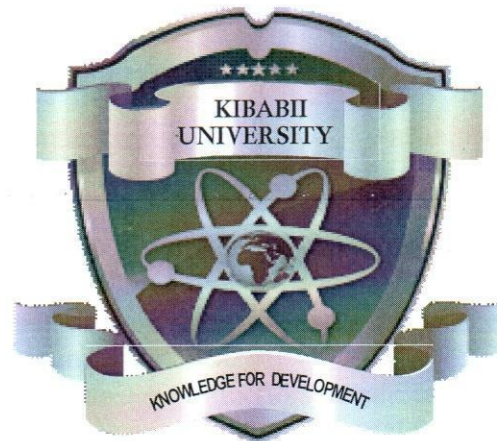


KIBABII UNIVERSITY



UNIVERSITY EXAMINATIONS

**2021/2022 ACADEMIC YEAR
FOURTH YEAR FIRST SEMESTER
SPECIAL/SUPPLEMENTARY EXAMINATION**

FOR THE DEGREE OF BACHELOR OF COMMERCE

COURSE CODE: BCP 451E

**COURSE TITLE: OPERATIONS MANAGEMENT IN SUPPLY
CHAIN**

DATE: 14/11/2022

TIME: 11.00AM – 1.00PM

INSTRUCTION TO CANDIDATES

- 1) The paper contains **FIVE** questions
- 2) Attempt **THREE** questions
- 3) Question **ONE** is Compulsory

TIME: 2 Hours

KIBU observes ZERO tolerance to examination cheating

QUESTION ONE (COMPULSORY)

- a) In one of the local dailies an article reads "JIT... just in time production" is the way to go.
Required
- i. Explain the concepts of JIT. (4marks)
 - ii. Identify and explain the three major types of waste in JIT. (4marks)
 - iii. List the two major types of JIT. (2marks)
- b) Define the term operations management. Briefly explain the strategic role of operations. (4marks)
- c) Mention any two objectives of plant layout. (2marks)
- d) Summarize the key features of the more commonly used forecasting method. (4marks)
- e) What are the benefits of inventory control. (4marks)
- f) What are the major inputs to master production schedule. (4marks)
- g) What are the major inputs to master production schedule. (2marks)

QUESTION TWO

- (a) Explain with an appropriate example, how a materials requirement planning (MRP) system works. (12 marks)
- (b) Define the term Facility layout and explain four qualities of a good facility layout (8 marks)

QUESTION THREE

- a) Explain the various considerations in selecting a production process. (10 marks)
- b) Using a product of your choice, examine the content and purpose of the design process. (10marks)

QUESTION FOUR

- a) You have been appointed as material manager in one of the leading manufacturing company. Explain the activities you will undertake in material management. (10marks).
- b) Define the term stores layout and explain four qualities of a good facility layout (10 marks)

QUESTION FIVE

- a) Discuss the benefits and challenges associated with the implementation of an MRP system. (6marks)
- (a) Explain the role and responsibilities of an operations manager within an organization. (8marks).
- (b) Compare and contrast the activities within operations management across THREE different sectors. (6marks)