

1ST SEMESTER EXAMINATION FOR THE DEGREE OF THE BACHELORS OFBUSINESS ADMINISTRATION

SCHOOL OF BUSINESS AND ECONOMICS (KLC)

COURSECODE:

ABA 441

COURSE TITLE	E: OPERATIONS MA	NAGEMENT.	
DATE:		TIME :	
DURATION: TV	VO HOURS		
INSTRUCTIONS	S		
This paper conta	ins FIVE (5) questions.		
Answer question	one (1) and any other TW	O questions.	
Write all the ans	wers in the booklet provide	ed.	
Q1 a)			
ii) Outline F	FIVE purposes for the need	gn of facility in operations management d for facility design in an organization different between process layout and	ı
Layout st	rategy.		(9marks)
	be the basic areas where zation.	e inspection is carried out in produc	tion process ofar

(6 marks)

ii) Outline THREE methods of inspection in an organization

c) Explai	n the following ter	ms as applied to operations management	
	i) Product		
	ii) Operation		
	Iii) DesignIv) Controlling		(8 marks).
d) Data re	garding output of a	company is given as follows:	
Ου	it put	= Kshs6000.00	
Hu	ıman resource	= Kshs 1300.00	
Su	pplies	= Kshs800.00	
Ca	pital investment	= Kshs1200.00	
Po	wer	= Kshs800.00	
Required:			
i) ii) iii)	Calculate product Total factor produ Total productivity		(7 marks).
Q2.a)			
i)	Explains the que practical example	stion that good job design should answer and in	each case give
ii)	Outline FOUR objectives of job design (10		(10 marks).
b) Explain	n how the following	g factor affects the job structure of an organization.	
i) Labo	or specialization		
ii) l	Ergonomics		
iii) iv)	Environment Organization		(10 marks)
Q3.a)			
i) ii)	in production prod	is scheduling and state THREE principles of operated sess of an organization. The rent between forward scheduling and backward scheduling and scheduling and backward scheduling and backward scheduling and scheduling and scheduling and scheduling	

iii) Show the process using a scheduling table

- (12 marks).
- b) The processing time (t) in hours for five jobs is given for a single machine scheduling as in table.1

Table.1

Job	1	2	3	4	5
Processing time	20	8	10	28	14

Required

- i) Establish the optimal sequence for the schedule that will minimize the work flow time.
- ii) Calculate the mean work flow time for the schedule

(8 marks).

Q4.

- a) Every organization has to design, develop and introduce new products as survival and growth strategy; outline SIX other reasons why it is important for an organization to continuously engage in design in design of products and services (12 marks).
- b) Define product cycle and outline the phases in a product cycle giving strategic activities at each face (8 marks)

Q5.

- a) Define plant layout and outline any SIX characteristics of plant layout (8 marks).
- b) Outline the advantages and disadvantages of the following types of layouts
 - i) Combination layout.
 - ii) Product lay out
 - iii) Fixed position layout.

(6 marks).

c) Describe six problems are associated with the plant location.

(6 marks).