1501/202 1508/202 1503/202 WORKSHOP ORGANIZATION AND MANAGEMENT June/July 2018 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN MECHANICAL ENGINEERING (PRODUCTION OPTION) CRAFT CERTIFICATE IN AUTOMOTIVE ENGINEERING CRAFT CERTIFICATE IN WELDING AND FABRICATION

MODULE II

WORKSHOP ORGANIZATION AND MANAGEMENT

3 hours

INSTRUCTIONS TO CANDIDATES

You should have an answer booklet for this examination.
Answer FIVE of the following EIGHT questions.
All questions carry equal marks.
Maximum marks for each part of a question are as shown.
Candidates should answer the questions in English.

This paper consists of 4 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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Turn over

1.	(a)	(i) Outline	the steps involved in planning as a function of management.		
	7	(ii) List for	r recording techniques use in work study.✓	(10 marks)	
	(b)	Explain three of F. W. Taylor.	operational outcomes of the scientific management theory by	(6 marks)	
	(c)	Highlight four benefits enjoyed by an industry that engages in activities which promote			
		welfare of society.			
2	(a)	(i) Explain	the term 'machine loading'. Co. Albron of the second of th	Look Aprovi	
		(ii) Outline	four ways a production manager may apply to compensate	for shortfall	
		in prod	uction due to poor machine loading.	(6 marks)	
	(b)	Identify four name production.	nethods that are used by industries to monitor work progress	during (4 marks)	
aa de	(c)	Most factories of the batches.	that engage in batch production are usually very concerned a Highlight four factors that may affect the size of the batch.	about the size (4 marks)	
1113	(d)	(i) Explain	n the term 'productivity'.		
1		(ii) Outline	e four strategies a company may use to maximise productivit	(6 marks)	
lat.	(a)		e three objectives of method study.	of P.	
		(ii) Explai	n the procedure for method study.	(10 marks)	
	(b)	(i) List fo	ur recording techniques used in work study.		
		(ii) Highli	ght two types of allowances in work study.	(4 marks)	
	(c)	(i) With t	he aid of a diagram, describe the product layout of a producti	on plant.	
		(ii) State t	hree advantages of the product layout.	(6 marks)	

- Explain the following principles of quality control:
 - (i) process approach;
 - (ii) systems approach.

(4 marks)

(b) Outline five desirable characteristics of a quality control inspector. (5 marks)

- (c). Highlight five causes of faults in manufactured products which may make it necessary to carry out inspection. (5 marks)
- (d) Describe the three stages of inspection during a production process.

(6 marks)

- Continut (5) (a) Distinguish between purchasing through 'Quotation' and purchasing through 'contract'.
 - (b) Explain three function of a purchasing department.

(6 marks)

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(4 marks)

Chages (at large farther) A juice processing company incurred the following costs for the month of November (c) 2015.

Cost	Value (Kshs)
Purchase of fruits	150,000
Electricity bill	20,000
Packaging materials	50,000
Plant operators' salaries	120,000
ligs and templates	30,000
Administrative staff salaries	100,000
Quality control expenses	30,000
Selling and distribution	40,000

(i) Identify:

- (I) prime costs;
- (II) production overheads.

(4 marks)

- Calculate: (ii)
 - (I) total prime costs;
 - (II) total production overheads;
 - (III) cost of production per unit if 10,000 units were produced.

(6 marks)

Highlight the four elements of the marketing mix. 6. (a) (4 marks) (b) Outline three advantages of distributing goods directly to customers. (3 marks) Highlight five factors that may make a customer to buy from one supermarket instead of (c) another. Your wind of voice (5 marks) DISCOUNT Outline five duties of a sales manager. (d) (i) With examples, describe the meaning of the term "after-sale services" (ii) with respect to a motor vehicle spare parts shop. (8 marks) Three graduates of a Technical Training Institute intend to start a partnership business. (a) Enlighten them on the following: (i) meaning of a 'partnership deed'; (ii) the importance of drawing up a partnership deed; (iii) four disadvantages of a partnership business. (10 marks) (b) Identify five types of illegal contracts. (5 marks) Explain the meaning of a 'negotiable instrument' of exchange; (c) (i) (ii) Give two examples of negotiable instruments. (5 marks) Explain the following general defences to a tort: (a) (i) act of God: inevitable accident. (4 marks) (ii) Explain four ways of improving industrial relations in an organisation. (8 marks) (b) State the meaning of 'joint consultation' as used in industrial relations. (c) (i)

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Highlight four essential factors which should be considered by the parties to

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(ii)

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achieve successful joint consultation.

contains the confirmation portions (8 marks)