2506/301 2507/301 INDUSTRIAL ORGANISATION AND MANAGEMENT June/July 2019 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN AERONAUTICAL ENGINEERING (AIRFRAMES AND ENGINES OPTION) (AVIONICS OPTION)

MODULE III

INDUSTRIAL ORGANISATION AND MANAGEMENT

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:

Answer booklet:

Non-programmable scientific calculator.

Answer any FIVE of the EIGHT questions in the answer booklet provided.

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.

- 1. (a) (i) State the difference between structured and unstructured interviews.
 - (ii) Highlight four weaknesses of interviews during staff recruitment. (6 marks)
 - (b) Explain four benefits of training to an organisation. (8 marks)
 - (c) (i) Define job analysis.
 - (ii) Outline four applications of job analysis in an organisation. (6 marks)
- 2. (a) State **two** functions of an office. (2 marks)
 - (b) Explain three methods of filing documents in an office. (6 marks)
 - (c) The following information was extracted from the books of a company for a given month:

Cost
10,000
50,000
250,000
10,000
120,000
12,000
100,000
40,000
5,000
4,000

- (i) Classify the costs into either prime costs or production overheads.
- (ii) Calculate the:
 - I. total prime costs;
 - II. total production overheads.
- (iii) If 20,000 units were produced during this period, calculate the production cost per unit. (12 marks)

3.	(a)	Outline four characteristics of formal authority.	(4 marks	
	(b)	Explain four essentials for effective delegation in an individual organisat		
			(8 marks)	
	(c)	Highlight four factors considered by managers when evaluating alternati	ves during the	
		decision making process.	(4 marks)	
	(d)	Explain why companies continue to introduce management by objectives shortcomings.	despite its (4 marks)	
4.	(a)	(i) Outline four characteristics of classical approach to management.		
		(ii) List two criticisms of classical approach to management.	(6 marks)	
	(b)	Highlight four activities of an industrial organisation as perceived by Her		
			(4 marks)	
	(c)	Explain five principles of planning according to Koontz and O'Donnel.	(10 marks)	
5.	(a)			
		equipment.	(4 marks)	
	(b)	Outline four duties of a storekeeper.	(4 marks)	
	(c)	Explain three factors considered by purchasing department when evaluation	ng suppliers. (6 marks)	
	(d)	The cost of placing an order for an item is Ksh 2,000. For an annual demandants, carrying costs amount to 10% of the annual inventory value. If the for each unit is Ksh 100, determine:	selling price	
		(i) Economic Order Quantity;		
		(ii) Number of orders during the year.	(6 marks)	
6.	(a)	(i) Define work study.		
		(ii) Explain three objectives of work study.	(8 marks)	
	(b)	Identify four applications of work study data in an industrial organisation.	(4 marks)	
	(c)	(i) Differentiate between time-based and work-based preventive main	tenance.	
		(ii) Outline six activities involved in a preventive maintenance system.		
			(8 marks)	

7.	(a)	Highligh	ht four difficulties encountered when measuring national income.	(4 marks
	(b)	Explain	the following terms as used in Economics:	
		(i) t	palance of payments;	
		(ii) p	producer goods;	
		(iii) i	nelastic demand.	(6 marks)
	(c)	(i) I	Ilustrate the difference between movement along the demand curve a lemand curve.	and shift in
		(ii) E	Explain three possible causes of a shift in demand curve.	(10 marks)
8.	(a)	State for	ir characteristics of job production.	(4 marks)
	(b)	Describe the following documents used in production planning and control:		
		(i) r	oute sheet;	
			nstruction sheet.	(6 marks)
	(c)	(i) E	Explain the term 'production control'.	
		(ii) C	Outline four items that are controlled during the production process.	(6 marks)
	(d)	Compare	e process layout and product layout in terms of the following criteria:	
		(i) w	ork flow;	
		(ii) s _l	pace utilisation.	(4 marks)
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