2501/201

2508/201

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2509/201

2503/201

INDUSTRIAL ORGANIZATION

AND MANAGEMENT

June/ July 2023 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN MECHANICAL ENGINEERING (PRODUCTION OPTION) (PLANT OPTION) DIPLOMA IN AUTOMOTIVE ENGINEERING DIPLOMA IN WELDING AND FABRICATION DIPLOMA IN CONSTRUCTION PLANT ENGINEERING

MODULE II

INDUSTRIAL ORGANIZATION AND MANAGEMENT

3 hours

INSTRUCTIONS TO CANDIDATES

You should have a the following for this examination: Answer booklet:

Non-programmable scientific calculator.

Answer FIVE of the following EIGHT questions.

All questions carry equal marks.

Maximum marks for each part of a question are as indicated.

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) Explain three disadvantages of centralised stores. (3 marks) (b) Explain four factors that may affect the stock level of materials in an organization. (8 marks) (c) The following information relates to the consumption of a store item: maximum consumption 8,000 units per week; minimum consumption 6,000 units per week; lead time 5 - 7 weeks; economic Order Quantity 28,000 units. Determine the: (i) re-order level; minimum stock level; (ii) (iii) maximum stock level; (iv) average stock level. (9 marks) 2. (a) Distinguish between job description and job specification. (4 marks) (b) Outline four merits of job rotation as a method of employee training. (4 marks) (c) Explain four advantages of promotion of workers as a method of internal recruitment. (8 marks) (d) Highlight four causes of industrial disputes in an organization. (4 marks) 3. (a) Explain three documents used in production planning and control. (6 marks) (b) Outline four activities carried out during the routing stage of production planning. (4 marks) Highlight four advantages of mass production. (c) (4 marks) (d) Explain each of the following types of schedules used in production planning: (i) master schedule; (ii) order schedule; (iii) machine schedule. (6 marks)

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- 4. (a) Explain two circumstances that may compel a manufacturing company to adopt a centralised maintenance system. (4 marks)
 - (b) Outline four differences between preventive maintenance and breakdown maintenance.
 (8 marks)
 - (c) Explain four characteristics of management by objectives (MBO). (8 marks)
- 5. (a) With the aid of sketches, explain the difference between elastic supply and perfectly inelastic supply. (6 marks)
 - (b) Explain four factors that determine the demand for labour in an economy. (8 marks)
 - (c) Explain three factors that may lead to a rightward shift in the demand curve of a commodity. (6 marks)
- 6. (a) Outline four demerits of a closed type of office. (4 marks)
 - (b) (j) Describe lateral filing.
 - (ii) List three advantages of lateral filing.

(5 marks)

(c) Outline four objectives of method study.

(4 marks)

(d) Table I shows time study data of a job with time cycles.

Table I

Number of cycles	1	2	3	4	5	6	7	8	9	10
Time in minutes	1.24	1.28	1.21	1.28	1.30	1.32	1.26	.29	1.34	1.20

Additional information:

- performance rating is 110%;
- working allowances = 20%.

Determine the:

- (i) basic time;
- (ii) standard time.

(7 marks)

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- 7. Explain each of the following principles of management by Henri Fayol: (a)
 - scalar chain; (i)
 - (ii) discipline.

(4 marks)

- Explain four characteristics of bureaucratic system of management. (b)
- (8 marks)
- Outline four differences between authority and responsibility. (c)

(8 marks)

8. (a) Distinguish between variable costs and marginal costs. (4 marks)

Explain three benefits of break-even analysis to an organization. (b)

(6 marks)

Table II shows the costs incurred by a certain manufacturing company. (c)

Table II

Item Number	Item Description	Amount (Ksh)	
1	Material in hand (November 1, 2019)	120,000	
2	Plant depreciation	400,000	
3	Wages of direct works	250,000	
4	New material purchased	350,000	
5	Office lighting and heating	60,000	
6	Variable direct expenses	150,000	
7	Material in hand (February 2020)	80,000	

Determine the:

- (i) material cost;
- (ii) prime cost;
- (iii) factory cost.

(6 marks)

Outline four qualities of an effective purchasing manager. (d)

(4 marks)

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