

Name: \_\_\_\_\_ Index No. \_\_\_\_\_

2903/305

Candidate's Signature: \_\_\_\_\_

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Date: \_\_\_\_\_

3103

MANAGEMENT ACCOUNTING

November 2015

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

**DIPLOMA IN SUPPLY CHAIN MANAGEMENT  
DIPLOMA IN BUSINESS MANAGEMENT  
DIPLOMA IN ROAD TRANSPORT MANAGEMENT  
MODULE III**

**BUSINESS EDUCATION SINGLE AND GROUP CERTIFICATE  
EXAMINATIONS  
STAGE III**

MANAGEMENT ACCOUNTING

3 hours

**INSTRUCTIONS TO CANDIDATES***Write your name and index number in the spaces provided above.**Sign and write the date of the examination in the spaces provided above.**This paper consists of SEVEN questions.**Answer any FIVE of the SEVEN questions in the spaces provided in this question paper.**All questions carry equal marks.**Show all your working.**Candidates should answer the questions in English.***For Examiner's Use Only**

Question	1	2	3	4	5	6	7	TOTAL SCORE
Candidate's Score								

**This paper consists of 26 printed pages.**

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





3. (a) Explain **four** assumptions of a transportation model. (8 marks)
- (b) A cashier in a supermarket can serve an average of 36 customers per hour. On average, 27 customers visit the cashier per hour. Assuming a single service queueing model, determine the:
- (i) traffic intensity;
  - (ii) average number of customers in the queue;
  - (iii) average number of customers in the system;
  - (iv) average time customers spend in the queue;
  - (v) probability of a customer not queuing on arrival. (12 marks)

4. (a) Explain **four** functions of management accounting. (8 marks)
- (b) Awele Limited manufactures two products, X and Y, using two types of materials, M and N. The following information relates to the production activities of the firm in a particular month.

- Budgeted sales:

Product	Quantity	Price per unit (Ksh)
X	1,250	215
Y	3,111	302

- Budgeted materials to be uses:

Material	M	N
	<u>Ksh</u>	<u>Ksh</u>
Unit cost	90	60
Quantities to be used:		
X	6	4
Y	2	2

- The following stocks are expected:

	Opening Stock	Closing Stock
- Finished products		
X	501	200
Y	333	443
- Materials		
M	221	100
N	50	155

Prepare the following budgets:

- Sales budget.
- Production budget.
- Material usage in quantity budget.
- Material purchase budget.

(12 marks)









7. (a) Pamba limited produces three products and is reviewing the production and sales budget for the next accounting period.  
The following information is available for the three products:

	Product X	Product Y	Product Z
Contribution per unit	ksh 12,000	ksh 10,000	ksh 6,000
Machine hours required per unit	6 hours	2 hours	1 hour
Estimated demand	200,000 units	200,000 units	200,000 units

The available machine hours is 1,200,000 and the fixed overhead is ksh 2,400,000.

Advise the management on the products to produce during the period and determine the resultant profit. (10 marks)

