2802/102
CATERING PREMISES, EQUIPMENT
AND MATHEMATICS
June/July 2017
Time: 3 hours

THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN FOOD AND BEVERAGE MANAGEMENT

MODULE I

CATERING PREMISES, EQUIPMENT AND MATHEMATICS

3 hours

INSTRUCTIONS TO CANDIDATES

You should have a non-programmable scientific calculator for this examination.
This paper consists of TWO sections; A and B.
Answer question ONE and any other THREE questions from Section A.
Answer question SIX and any other THREE questions from Section B.
Show all your working in Section B.
Answers to all questions must be written in the answer booklet provided.
Maximum marks for each part of a question are 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.**

SECTION A: CATERING PREMISES AND EQUIPMENT (50 marks)

*Answer question **ONE** (**Compulsory**) and any other **THREE** questions in this section.*

1. (a)   State **Two** importance of windows and doors in a production kitchen.   (4 marks)

    (b)   (i)   State **two** importance of plumbing in the kitchen.   (2 marks)

          (ii)   Highlight **two** disadvantages of using hard water in a catering premises.
                                                                                              (2 marks)

    (c)   Differentiate between fry plate and infra-grills.   (4 marks)

    (d)   Outline the procedure of cleaning a steamer.   (4 marks)

    (e)   Explain the meaning of each of the following:

          (i)   hazard;   (2 marks)

          (ii)   safety.   (2 marks)

2. State **five** advantages of indirect system of water supply.   (10 marks)

3. Describe **five** factors affecting tenancy.   (10 marks)

4. (a)   Distinguish between each of the following types of waste disposal:

          (i)   disposal units and compactors;   (4 marks)

          (ii)   bins and chutes.   (4 marks)

    (b)   Highlight **two** advantages of incineration method of disposal.   (2 marks)

5. (a)   Identify **six** duties of a catering manager.   (6 marks)

    (b)   Differentiate between commercial and welfare catering.   (4 marks)

SECTION B: MATHEMATICS (50 marks)

Answer questions SIX (compulsory) and any other THREE questions from this section.

6. (a) A poultry farmer collected 26,238 eggs which were packed in trays of capacity of 30 eggs each. Determine how many more eggs were needed to fill the last tray.

    (4 marks)

    (b) Given that the volume of a cuboid is 12.6 litres, determine its height if its length is 30 cm and width is 28 cm. (4 mar

    (c) Sabina bought 300 oranges for Ksh 1500 and sold them in piles of 6 for Ksh 20 per pil Determine the percentage loss. (4 mar

    (d) Five people can paint three rooms in three weeks. Determine the number of people working at the rate that will paint six similar rooms in fifteen days. (4 mar

    (e) Given that the equation of a straight line is $-\left(\frac{x}{4} - 2y\right) = 1$, determine its gradient. (4 mar

7. Table 1 shows the heights in centimetres of 100 tree seedlings.

Height (cm)	10-19	20-29	30-39	40-49	50-59	60-69
Number of Seedlings	9	16	19	26	20	10

Calculate the quartile deviation of the heights. (10 ma...

8. The bar graph represent the expenditure of a student in a month.
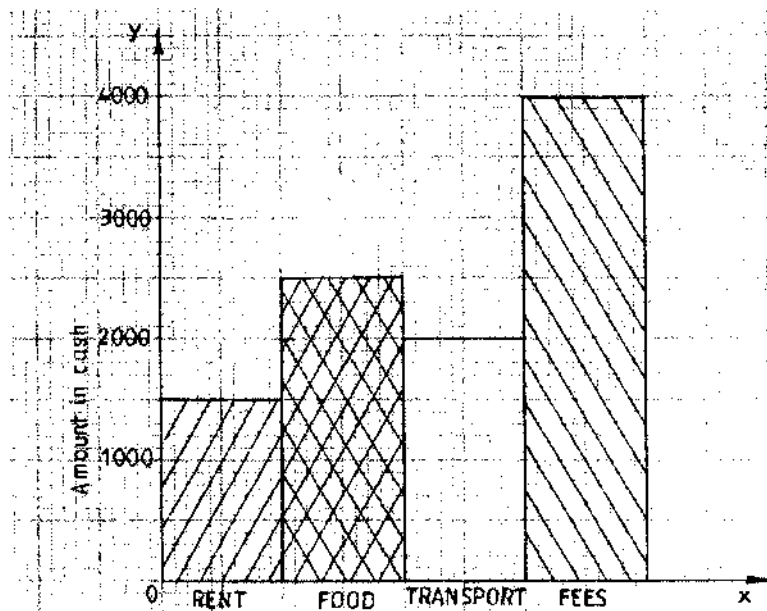
Illustrate the information on a pie-chart. (10 marks)

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9. (a) The supply of a vaccine to a college clinic depends entirely on two firms **X** and **Y**. The probability of firm **X** failing is 0.1 and the probability of **Y** failing is 0.2.

(i) Represent the information on a tree diagram. (2 marks)

(ii) Determine the probability that at least one firm delivered the vaccine. (2 marks)

(b) Without using a calculator, proof that:

$$\frac{11 \times 6! - 18 \times 5!}{4 \times 6} = 2$$ (6 marks)

10. (a) Table 2 show the exchange rates of a foreign currency by a Kenyan bank. Use it to answer the following question.

	Buying	Selling
1 Canadian Dollar (Can $)	62.07	64.15

A tourist from Canada converted 101,200 Canadian Dollars to Kenya shillings for hotel accommodation and other miscellaneous expenses while in the country. His expenditure was as follows:

Hotel accommodation for 40 days at the rate of Ksh 9,000 per day full board, hire a self driven car at Ksh 7,000 per day, bought curios worth Ksh 15,000 and he donated the rest to a children's home. Calculate the amount of money he donated in Kenya shillings. (7 marks)

(b) The books of account for a self-help groups were as follows:

Opening stock = Ksh 100,000
Closing stock = Ksh 60,000
Rate of stock turnover = 6 times

Calculate, the cost of sales. (3 marks)

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