Name:		Index No:	/
2802/102		Candidate's Signature:	
CATERING PREMISES,			
EQUIPMENT AND MATHEMATICS	TENTA MARIO	Date:	
June/July 2015			
Time: 3 hours			
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THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN FOOD AND BEVERAGE MANAGEMENT MODULE I

CATERING PREMISES, EQUIPMENT AND MATHEMATICS

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.

You should have a Non-programmable scientific calculator for this examination.

This paper consist of TWO sections; A and B.

Answer question ONE and any other THREE questions in Section A.

Answer question SIX and any other THREE questions from Section B in the spaces provided.

Show all your workings in section **B**.

Maximum marks for each part of a question are indicated.

Candidates should answer the questions in English.

For Examiner's Use Only

SECTION A

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

SECTION B

Question	6	7	8	9	10	TOTAL SCORE	Gran
Candidate's Score							Tot

Grand	
Total	

This paper consists of 20 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 (50 marks)

Answer question ONE and any other THREE questions in this section.

1.	(a)	State f	our qualities of a first aider.	(4 marks)
	(b)	Differe	entiate between stop cock and ball valves.	(4 marks)
•	(c)	Highli	ght four advantages of using a microwave oven in a catering outlet.	(4 marks)
	(d)	State f	our points to consider when choosing fuel.	(4 marks)
	(e)	Explai	n the following types of waste	(4 marks)
		(i)	Food waste	(4 marks)
		(ii)	Hazardous waste	
2.	Explai	in the us	ses of the following fire extinguishers:	
		(i)	Red (water);	
		(ii)	Foam (cream);	
		(iii)	Black (CO ₂);	*
		(iv)	Blue (dry powder);	
		(v)	Water sprinkler.	(10 marks)
3.	Outlir	ne the pr	rocedure of replacing a plug fuse which is not working.	(10 marks)
4.	(a)	Expla	in the meaning of the following terms:	(4 marks)
		(i)	hazard;	(4 marks)
		(ii)	safety.	
	(b)	Expla	in three causes of accidents in a production kitchen.	(6 marks)
5.	(a)	_	in the two advantages of preventive maintenance plan for a first class lishment.	(4 marks)
	(b)	Expla	in three factors influencing types of maintenance in a catering premise	s. (6 marks)

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SECTION B: EQUIPMENT AND MATHEMATICS (50 marks)

Answer question SIX and any other THREE questions in this section.

6. (a) **COMPULSORY**

- (i) Without using a calculator, evaluate (-8) + (-5) (-3) (+6). (2 marks)
- (ii) Simplify 2x 3y + 4x 7y. (2 marks)
- (b) Figure 1 shows a square inscribed in a circle. Given that the circle has an area of 153.958 cm², determine the length of the diagonal. (take $\pi = 3.142$) (4 marks)

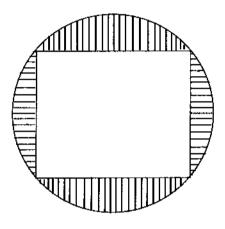


Figure 1

- (c) A tourist travelled from Entebbe to Nairobi with USh 60,000 in bank notes and Ush 480,000 in form of six travellers cheques of Ush 80,000 each. How much did he receive from the bank in Nairobi if the exchange rate for bank notes is Ush 1 = Ksh 0.08 and travellers' cheque Ush 1 = 0.06? (4 marks)
- (d) An employee's annual salary is Ksh 1,280,000. Given that income tax is annually calculated as follows:

	Income	Rate
First	360,000	0%
Next	200,000	25%
the remainder		33%

Calculate the employee's salary after the payment of tax.

(4 marks)

(e) In a particular day in a town in Europe, the temperature dropped by 10°C in the morning, increased by 15°C at noon and dropped by 11°C in the evening. If the initial temperature was 4°C in the morning, determine the temperature of the town by the end of the day.

(4 marks)

- 7. (a) A trader deals in two types of rice, type A and type B. The trader buys type A at Ksh 4000 per bag and type B at Ksh 3500 per bag. The trader mixes 30 bags of type A with 50 bags of type B. He sells the mixture at a profit of 20%. Calculate the selling price of one bag of the mixture. (6 marks)
 - (b) A research done on household shows that consumption of wheat flour per month varies inversely as their prices and directly as the size of the household. In a family of four, 40 kg of wheat flour were consumed when the price was Ksh 105. Determine the amount of flour that a family of six would consume given that the price is Ksh 120.

 (4 marks)
- 8. Table 1, shows the ages in years of 60 people who attended a conference.

Age in years	30-39	40-49	50-59	60-69	70-79
Number of people	10	12	18	17	3

Table 1

Calculate:

(a) the mean age, (5 marks)

(b) the standard deviation. (5 marks)

- 9. A class is to nominate one girl and one boy to be their representative. The girl is choosen from Nafula, Nekesa, Aluma and Wairimu and the boy from Omagi, Ondieki, Omari and Nyakundi. Use a tree diagram to determine:
 - (a) the probability that Nafula and Nyakundi will be chosen; (8 marks)
 - (b) the probability that neither Aluma nor Nyakundi will be chosen. (2 marks)
- 10. (a) Outline four sources of errors in sampling. (4 marks)
 - (b) State two circumstances under which each of the following sampling methods are used:
 - (i) simple; (2 marks)
 - (ii) stratified; (2 marks)
 - (iii) Cluster. (2 marks)