

SULIT



**BAHAGIAN PEPERIKSAAN DAN PENILAIAN
JABATAN PENDIDIKAN POLITEKNIK
KEMENTERIAN PENDIDIKAN MALAYSIA**

JABATAN PELANCONGAN DAN HOSPITALITI

PEPERIKSAAN AKHIR

SESI DISEMBER 2014

HH207: MATHEMATICS FOR FOOD SERVICE OPERATION

TARIKH : 14 APRIL 2015

TEMPOH : 2.30 PM - 4.30 PM (2 JAM)

Kertas ini mengandungi **TIGA BELAS (13)** halaman bercetak.
Bahagian A: Esei (6 soalan)

Dokumen sokongan yang disertakan : Tiada

JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIARAHKAN

(CLO yang tertera hanya sebagai rujukan)

SULIT

SECTION A : 100 MARKS**BAHAGIAN A : 100 MARKAH****INSTRUCTION:**

This section consists of **SIX (6)** essay questions. Answer **FIVE (5)** questions only.

ARAHAN:

Bahagian ini mengandungi ENAM (6) soalan esei. Jawab LIMA (5) soalan sahaja.

QUESTION 1**SOALAN 1**CLO1
C1

(a) Convert the measurement below. Show the calculation.

Tukar pengukuran di bawah. Tunjukkan jalan kerja dengan lengkap.

- i. 74 oz = _____ kg
- ii. 6 ½ inch = _____ cm
- iii. 8 tbsp = _____ ml
- iv. 6 ¾ lb = _____ gm
- v. 140 °F = _____ °C
- vi. 225 gm = _____ oz
- vii. 180 °C = _____ °F
- viii. 10 ml = _____ tsp

[10 marks]
[10 markah]

CLO1
C2

(b) Convert the calculation below. Show the calculation.

Tukar pengukuran di bawah. Tunjukkan jalan kerja dengan lengkap.

- i. 158 °F – 58°C = _____ °C
- ii. 65 floz + 70 ml = _____ ml
- iii. 3.8 L – 1.007 quart = _____ quart
- iv. 2 lb + 400 gram = _____ gram
- v. 3.2 kg + 1.5 lb = _____ kg

[10 marks]
[10 markah]

QUESTION 2

SOALAN 2

CLO2
C1**Sponge Cake with Dulce De Leche
Cream**

6 nos egg
 30 gram sugar
 60 ml fresh milk
 60 ml melted butter
 120 gram cake flour
 ¼ tsp salt
 70 gram sugar

Dulce De Leche Cream

350 ml whipping cream, cold
 ¾ g dulce de leche
 2/3 tbsp gelatin
 1 tbsp of water

*1 nos = 45 g

Table 1: Recipe 1
Jadual 1: Resepi 1

**Summer Berries Sour Cream Tea
Cake**

200 g flour
 1 tsp baking powder
 2/3 cup sugar
 1 cup low fat sour cream
 2 eggs
 1 tsp vanilla
 1/2 cup red raspberries
 1/2 cup black berries
 1/2 cup blueberries

Cream Cheese Frosting:

4 tbsp cream cheese
 1 tbsp butter
 ¾ cup confectioner's sugar
 1 tbsp lemon juice

Table 2: Recipe 2
Jadual 2: Resepi 2

- (a) Chef Fariha wants to hold a gathering with her friend during the weekend. She wanted to make a Sponge Cake With Dulce De Leche Cream (Table 1) and a Summer Berries Sour Cream Tea Cake (Table 2). However, she must choose between the two cake recipes that would be sufficient for 15 portions. Help her to find which recipe that is sufficient for her purpose. Show a complete calculation.

Chef Fariha mahu mengadakan satu perjumpaan bersama kawan-kawannya pada hujung minggu ini. Beliau mahu membuat Sponge Cake With Dulce De Leche Cream (Jadual 1) and Summer Berries Sour Cream Tea Cake (Jadual 2). Namun, beliau perlu memilih resipi yang cukup untuk dihidangkan untuk 15 orang. Bantu beliau untuk memilih resipi tersebut. Tunjukkan jalan kerja dengan lengkap.

[15 marks]
 [15 markah]

CLO2
C3

(b)

Shrimp Fried Rice Portion: 12

3 cups of cooked rice
1 cup of fresh shrimps – clean and deveined
½ cup of fresh peas
2 eggs
2 cloves of garlic – chopped
2 shallots – finely slice
1 tbsp of oyster sauce
3 tbsp of soy sauce

Table 3: Shrimp Fried Rice Recipe
Jadual 3: Resepi Nasi Goreng Sirip Ikan

Calculate the new weight for each of the ingredients in Table 3 above if you are required to produce a meal for 40 pax.

Kira berat baru untuk setiap ramuan di dalam resipi di Jadual 3 di atas jika anda perlu menyediakan untuk 40 porsi.

- i. Cooked rice / *Cooked rice*
- ii. Shrimp / *udang*
- iii. Eggs / *telur*
- iv. Oyster sauce / *sos tiram*
- v. Shallot / *bawang merah kecil*

[5 marks]
[5 markah]

QUESTION 3

SOALAN 3

CLO 3
C2

Mr Ahmad operates a cafe in Ipoh. The popular dessert in his cafe is Flambeed Honey Dew With Pernod And Ice Cream. Below is the menu cost table for Flambeed Honey Dew with Mango and Ice Cream. Table 4 below is the menu for 3 portions.

Encik Ahmad menjalankan perniagaan kedai kopi di Ipoh. Pencuci Mulut yang popular di kedainya ialah "Flambeed Honey Dew With Pernod And Ice Cream". Jadual di dibawah merupakan jadual Kos Makanan untuk "Flambeed Honey Dew With Pernod And Ice Cream" untuk 3 porsi.

Ingredients	Cost/unit (AP)	Cost/unit (EP)	Total Cost
450 g honey dew	RM 3.20	?	RM 1.91
450 ml vanilla ice creams	RM 5.90	RM 5.90	?
45 g sugar	RM 2.30	?	RM 0.10
15 g butter	RM 4.50	RM 4.50	RM 0.06
10 ml orange juice	RM 3.90	RM 3.90	RM 0.03
10 ml lemon juice	RM 6.80	RM 6.80	RM 0.06
50 g mango	?	RM 9.80	RM 0.49

Table 4 / Jadual 4 : Flambeed Honey Dew With Pernod And Ice Cream Recipe

- (a) Calculate the cost per unit (AP) for mango.

Kirakan kos per unit (AP) bagi mangga

[2 Marks]
[2 Markah]

- (b) Calculate the cost per unit (EP) for Honey Dew and Sugar.

Kirakan kos per unit (EP) untuk tembikai sus dan gula

[3 Marks]
[3 Markah]

- (c) Calculate the cost per item for vanilla ice cream.

Kirakan kos per item untuk ais krim vanilla.

[2 Marks]
[2 Markah]

- (d) Calculate the total cost for Flambeed Honey Dew with Mango and Ice Cream

Kirakan jumlah kos untuk Flambeed Honey Dew With Pernod And Ice Cream.

[5 Marks]

[5 Markah]

- (e) Calculate the cost per portions for Flambeed honey dew with mango and ice cream.

Kirakan kos per porsi untuk Flambeed Honey Dew With Pernod And Ice Cream

[2 Marks]

[2Markah]

- (f) Mr Ahmad has two workers for his café. They work from 11.00 am until 6.00 pm from Monday to Saturday. Mr Ahmad pays them RM3.50 per hour. Calculate the total amount of money they receive for a week.

Encik Ahmad mempunyai 2 orang pekerja di kedainya. Mereka bekerja dari jam 11.00 pagi sehingga 6.00 petang dari Isnin hingga Sabtu. Encik Ahmad membayar mereka RM3.50 sejam. Kira jumlah upah yang diperolehi oleh pekerja Encik Ahmad dalam tempoh se minggu.

[4 Marks]

[4 Markah]

- (g) Mr Ahmad has just received his electricity bill and found that the amount he needs to pay is missing. Based on the information below, calculate the total amount that he needs to pay.

Encik Ahmad menerima bil elektrik dan mendapati bayaran yang perlu dibayar tiada. Berdasarkan maklumat dibawah, kirakan jumlah yang perlu dibayar oleh Encik Ahmad.

[2 Marks]

[2 Markah]

Current amount = RM 24.68

Pending amount = RM56.78

Adjustment amount = RM 12.67

Amount to Pay =

QUESTION 4

SOALAN 4

CLO3
C3

- (a) The following is the food yield management table for Malaysian Taste Restaurant. Complete the table below using the correct calculation. (refer Table 5)

Berikut merupakan jadual pengurusan hasil makanan untuk Restoran Malaysian Taste. Lengkapkan jadual di bawah dengan menunjukkan jalan pengiraan yang betul. (rujuk jadual 5)

No.	Ingredients <i>Bahan-bahan</i>	AP weight <i>Berat AP</i>	EP weight <i>Berat EP</i>	Yield % <i>% Hasil</i>
a.	Pomfret (dressed) <i>Ikan bawal (bersih)</i>	25 kg	22.8 kg	91.2 kg
b.	Seabass (steak) <i>Ikan siakap (ketul)</i>	40.85 kg	___ kg	85.97 kg
c.	Seabass (fillet) <i>Ikan siakap (filet)</i>	35 kg	27.02 kg	___ kg
d.	Chicken breast (without skin) <i>Dada ayam (tanpa kulit)</i>	___ kg	87 kg	85.29 kg
e.	Whole chicken (cleaned) <i>Ayam seekor (bersih)</i>	51 kg	43 kg	___ kg

Table 5 / *Jadual 5*: Yield percentage table

- i. Find the yield weight for seabass (steak)?
Carikan berat hasil bagi ikan siakap (ketul)?

[2 marks]
[2 markah]

- ii. Calculate the yield percentage (yield %) for the following ingredients.
Kirakan peratus hasil (% hasil) untuk bahan-bahan berikut:

- a. Seabass (fillet)
Ikan siakap (filet)
- b. Whole chicken (cleaned)
Ayam seekor (bersih)

[4 marks]
[4 markah]

- iii. Calculate the as purchased weight (AP weight) for chicken breast (without skin)?
Kirakan berat as purchased weight (berat AP) untuk dada ayam (tanpa kulit)?
- [2 marks]
[2 markah]
- iv. Pomfret (dressed) has 25 kg of as purchased weight (AP weight). Based on the information given, find the waste weight of the pomfret.
Ikan bawal mempunyai berat as purchased weight (berat AP) sebanyak 25 kg. Daripada maklumat yang diberikan di atas, carikan berat buangan bagi ikan bawal.
- [2 marks]
[2 markah]
- v. Find the waste percent (%) for pomfret (dressed).
Carikan peratus buangan (%) bagi ikan bawal (bersih).
- [2 marks]
[2 markah]

CLO3
C3

(b)

<i>Malaysian Taste Restaurant</i>	
Butcher Test Card	
Date: 9/12/2013 Time: 9.00 am	
Menu: <i>Menu:</i>	Stewed Lamb Shank
Item: <i>Bahan:</i>	Lamb Shank
Weight per portion: <i>Berat per porsi:</i>	300 g
AP weight: Berat AP:	10.2 kg
Waste weight: Berat waste:	950 g

Table 6 /Jadual 6: Butcher test card

Based on table information in Table 6 above:

Merujuk kepada maklumat Jadual 6 di atas.

- i. Calculate the yield weight for the lamb shank.

Kirakan berat hasil untuk lamb shank.

[2 marks]

[2 markah]

- ii. Find the yield percentage (%).

Carikan peratus hasil (%)

[2 marks]

[2 markah]

- iii. Calculate the edible portion weight (EP weight), if the restaurant has sold 25 portions of stewed lamb shank.

Kirakan berat edible portion (berat EP), sekiranya restoran berkenaan telah menjual 25 porsi lamb shank stew.

[2 marks]

[2 markah]

iv. Calculate the as purchased weight (AP weight) for the 25 portions of lamb shank?

Apakah berat as purchased (berat AP) bagi 25 porsi lamb shank?

[2 marks]
[2 markah]

QUESTION 5

SOALAN 5

CLO5
C3

(a) Calculate the menu price for a plate of Nasi Goreng Kampung if the cost of the raw food is RM2.75 and the monthly food cost percentage is 38%.

Kira harga jualan untuk sepinggan Nasi Goreng Kampung jika kos bahan mentah makanan ialah RM 2.75 dan peratus kos bulanan makanan ialah 38%.

[3 marks]
[3 marks]

(b) Choose **FOUR (4)** non-cost related pricing methods and list all of them.

*Pilih **EMPAT (4)** kaedah penetapan harga bukan berdasarkan kos dan senaraikan kesemuanya.*

[4 marks]
[4 markah]

(c) Calculate the following costs using the information given in the Table 7 below.

Kira kos-kos berikut dengan merujuk kepada maklumat yang diberikan dalam jadual di bawah. (rujuk jadual 7)

Fried KueyTeow	
Food Cost	: RM 8.00
Direct Labor Cost	: RM 9 / hour
Duration of dish preparation	: 5 minutes
Food Cost %	: 35%
Direct Labor %	: 10%
Prime Cost Percentage (%)	: <u>?%</u>
Profit	: 12%

Table 7 / *Jadual 7* : Fried kuey teow cost

i. The Prime Cost / *Kos prima*

[7 marks]
[7 markah]

ii. Prime Cost percentage (%) / *Peratus (%) Kos Prima*

[3 marks]
[3 markah]

iii. Menu @ Selling Price / *Harga menu @ harga jualan*

[3 marks]
[3 markah]

QUESTION 6

SOALAN 6

CLO4
C3

- (a) Complete the food sales report for Malaysian Taste Restaurant in Table 8.

Lengkapkan laporan jualan makanan untuk Restoran Malaysian Taste pada jadual 8.

<i>Malaysian Taste Restaurant</i>				
Menu		<i>Menu Price Harga Menu (RM)</i>	<i>Quantity Sold Kuantiti</i>	<i>Total Sales Jumlah Jualan (RM)</i>
1.	Fresh orange	8.50	9	76.50
2.	Guava juice	13.50	15	?
3.	Fruit plater	10.50	3	31.50
4.	Daily baked bakery (3 pcs per order)	10.50	?	105.00
5.	Oatmeal cream brulee	?	10	95.00
6.	Hazelnut waffle with fruit compote and maple syrup	13.50	19	?
7.	Nasi lemak	19.50	15	292.50
8.	Penang fried kuey teow	?	10	170.00
Total Food Sales Jumlah Jualan Makanan				?

Table 8 / *Jadual 8*: Food sales report

- i. Calculate the value of sales:

Kirakan jumlah jualan:

- a. Guava juice / Jus jambu
- b. Hazelnut waffle with fruit compote and maple syrup / Hazelnut waffle bersama compote buah-buahan dan sirap maple

[4 marks]

[4 markah]

- ii. Calculate the value of sales quantity sold for Daily Baked Bakery.

Kirakan jumlah kuantiti yang telah terjual untuk Daily Baked Bakery

[2 marks]

[2markah]

- iii. Calculate the value for menu price (RM) of:

Kirakan jumlah harga jualan (RM):

- a. Oatmeal cream brulee / *Oatmeal cream brulee*
 b. Penang char kuey teow / *Penang char kuey teow*

[4 marks]

[4 markah]

- (b) Below is the sales information for Malaysian Taste Restaurant.

Berikut merupakan maklumat jualan untuk Restoran Malaysian Taste.

<i>Malaysian Taste Restaurant</i>	
<i>Total Food Sales</i>	RM 1,555.44
<i>Total Beverage Sales</i>	RM 895.66
<i>Total Quantity Sold</i>	155
<i>Seat Occupied</i>	100

Table 9 / *Jadual 9*: Sales Report

Calculate the average check for the restaurant and yearly forecasting sales.

Kirakan purata perbelanjaan pelanggan dan anggaran jualan untuk setahun bagi restoran tersebut.

[8 marks]

[8 markah]

SOALAN TAMAT