



**PEPERIKSAAN AKHIR / FINAL EXAMINATION
SEMESTER II-SESI 2020/2021**

KOD KURSUS <i>COURSE CODE</i>	: DPP1213
NAMA KURSUS <i>COURSE NAME</i>	: MATEMATIK PERNIAGAAN : <i>BUSINESS MATHEMATICS</i>
TAHUN/PROGRAM <i>YEAR/PROGRAMME</i>	: 1/DIPLOMA PENGURUSAN PERNIAGAAN : <i>1/DIPLOMA IN BUSINESS MANAGEMENT</i>
TEMPOH <i>DURATION</i>	: 2 JAM 30 MINIT : <i>2 HOURS 30 MINUTES</i>
TARIKH <i>DATE</i>	: APRIL 2021

**ARAHAN
INSTRUCTION**

1. JAWAB SEMUA SOALAN DALAM BAHAGIAN A DAN BAHAGIAN B.
ANSWER ALL QUESTIONS IN PART A AND PART B.
2. CALON DIKEHENDAKI MEMATUHI SEMUA ARAHAN PEPERIKSAAN.
CANDIDATES ARE REQUIRED TO FOLLOW ALL EXAMINATION INSTRUCTIONS.

NO. K/P <i>I/C NO.</i>	
TAHUN/PROGRAM <i>YEAR/PROGRAMME</i>	
NAMA PENSYARAH <i>LECTURER'S NAME</i>	PN. SURIANI BINTI JAAFAR

KERTAS PEPERIKSAAN INI MENGANDUNGI 8 MUKA SURAT BERCETAK TERMASUK MUKA HADAPAN
THIS EXAMINATION PAPER CONSISTS OF 8 PAGES INCLUDING THE FRONT PAGE

ARAHAN :Jawab semua soalan berikut.

INSTRUCTION: Answer all questions below.

SOALAN 1

[QUESTION 1]

- a) Diberi Janjang Aritmetik $-5, 0, 5, \dots$, dapatkan :

[Given an Arithmetic Progression $-5, 0, 5, \dots$, find :]

- i) Sebutan ke-10

[The 10th term]

(3 markah /marks)

- ii) Hasil tambah 10 sebutan pertama.

[The sum of the first 10th term]

(3 markah /marks)

- b) Cari bilangan sebutan yang terdapat dalam janjang geometrik berikut; $4, 16, 64, \dots, 65\ 356$ dan kirakan hasil tambah kesemua nombor itu.

[Find the number of terms in the following geometrics sequence; $4, 16, 64, \dots, 65\ 356$ and calculate the sum of all the terms.]

(6 markah /marks)

- c) Kirakan masa tepat dan masa anggaran bagi tarikh-tarikh berikut ;

[Calculate the exact time and approximate time for the date given below:]

- i) 10 April 2020 – 20 September 2020

[10th April 2020 – 20th September 2020]

(4 markah /marks)

- ii) 18 Jun 2020 – 4 Disember 2020

[18th June 2020 – 4th December 2020]

(4 markah /marks)

SOALAN 2

[QUESTION 2]

- a) RM10,000 telah dilaburkan selama 3 tahun 6 bulan di sebuah bank yang menawarkan kadar faedah ringkas sebanyak 8% setahun. Carikan :

[RM10,000 is invested for 3 years 6 months in a bank earning a simple interest rate of 8% per annum. Find:]

- i) faedah ringkas

[the simple interest rate]

- ii) jumlah ringkas pada akhir pelaburannya.

[simple amount at the end of the investment.]

(4 markah /marks)

- b) Cari nilai hadapan bagi pelaburan-pelaburan berikut;

[Find the future values for the following investments:]

- i) RM5,000 pada kadar 10% dikompaun suku tahunan selama 2 tahun 3 bulan.

[RM5,000 at 10% compounded quarterly for 2 years 3 months.] (4 markah /marks)

- ii) RM25,000 pada kadar 6% dikompaun bulanan selama 6 tahun.

[RM25,000 at 6% compounded monthly for 6 years]

(4 markah /marks)

- c) Kirakan nilai hadapan bagi situasi anuiti-anuiti berikut;

[Calculate the future values of the following annuities situations.]

- i) Suraya melabur RM250 setiap bulan selama 5 tahun pada kadar 12% dikompaun bulanan.

[Suraya invested RM250 every month for 5 years at 12% compounded monthly]

(4 markah /marks)

- ii) Zamri menyimpan RM400 setiap 3 bulan selama 12 tahun pada kadar 6% dikompaun sukuan tahunan.

[Zamri saved RM400 every 3 months for 12 years at 6% compounded quarterly.]

(4 markah /marks)

SOALAN 3

[QUESTION 3]

a) Terangkan terma-terma diskaun tunai berikut:

[Explain the following cash discount term:]

i) 3/10, n/30

ii) 1/30, n/60

iii) 2/10, net/30

(6 markah /marks)

b) Marsha membayar RM1,599.90 untuk sebuah telefon pintar yang menawarkan diskaun rantaian 15% dan 8%. Berapakah harga senarai telefon pintar tersebut.

[Marsha paid RM1,599.90 for a smartphone that was offered a chain discount of 15% and 8%.

What was the list price of the smartphone.]

(4 markah /marks)

c) Satu invoice RM6,500 dan bertarikh 11 Ogos 2019 ditawarkan pada kadar 25% diskaun dagangan dan diskaun tunai 2/10, n/60. Carikan:

[An invoice of RM6,500 and dated 11th August 2019 is offered at 25% trade discount rate and cash discount terms of 2/10, n/60. Find:]

i) Diskaun dagangan yang ditawarkan

[The trade discount offered]

(3 markah /marks)

ii) Diskaun tunai yang ditawarkan

[The cash discount offered]

(3 markah /marks)

iii) Bayaran bersih jika invoice dibayar pada 5 September 2019.

[The net payment if the invoice is paid on 5th September 2019]

(4 markah /marks)

SOALAN 4

[QUESTION 4]

- a) Harga senarai bagi sebuah motosikal ialah RM12,500. KB Rahim Motor telah membeli motorsikal dengan diskaun 25% dan menjualnya balik dengan memberi diskaun 10% berdasarkan harga senarai Carikan:

[The list price of motorcycle is RM12,500. KB Rahim Motor bought that motorcycle at 25% discount and sells them by giving 10% discount from the list price. Find:]

- i) Harga kos
[The cost price] (3 markah /marks)
- ii) Harga jual
[The selling price] (3 markah /marks)
- iii) Jumlah tokokan
[The markup amount] (2 markah /marks)

- b) Senarai di bawah menunjukkan jenis dan kuantiti item yang dijual oleh sebuah kedai buku dalam bulan tertentu.

[The list below shows the type and quantiti of items that are sold by a book store in a particular month.]

Perkara <i>[Items]</i>	Harga jual per unit (RM) <i>[Selling price per unit (RM)]</i>
50 unit buku rujukan <i>[50 units of refference book]</i>	60
75 unit majalah <i>[75 units of magazine]</i>	25
100 unit novel <i>[100 units of novel]</i>	20

Jika kedai tersebut menghasilkan keuntungan bersih 20% daripada harga kos setiap barangan dan kos operasi sebanyak 5% daripada harga kos, carikan

[If the following shop made a net profit of 20% on cost on each item and the operating expenses incurred were 5% on cost, find:]

- i) Kos setiap barangan
[The cost of each item] (9 markah /marks)
- ii) Keuntungan bersih bagi semua barang yang dijual
[The net profit for all items sold] (3 markah /marks)
- c) Carikan kadar nominal, dikompaunkan bulanan yang setara dengan:
[Find the nominal rate, compounded monthly, that is equivalent to:]
- i) 5.5 % efektif
[5.5 % effective]
- ii) 8.5% dikompaun semi tahun
[8.5% compounded semi-annually] (4 markah /marks)

SOALAN 5

[QUESTION 5]

- a) Aina menandatangani nota janji pada 1 Julai 2020 bagi RM12,500 dengan Public Bank dan Syarikat Tegoh . Nota itu bertempoh selama 90 hari pada kadar faedah ringkas sebanyak 9.5%. Carikan:
[Aina signed a promissory note on 1st July 2020 for RM12,500 with Public Bank and Tegoh Company. The note's period was for 90 days at a simple interest rate of 9.5%. Find:]
- i) Tarikh matang
[Maturity date] (2 markah /marks)
- ii) Nilai matang
[Maturity value] (3 markah /marks)
- b) Sebuah mesin jahit yang dijual tunai RM5,000 boleh dibeli pada pelan ansuran dengan membayar RM1,000 bayaran pendahuluan dan 36 bayaran bulanan sebanyak RM200. Kirakan :
[A sewing machine that is sold for RM5,000 cash can be purchased by an instalment plan by paying RM1,000 down payment and 36 equal monthly payment of RM200. Calculate:]
- i) Faedah yang dikenakan
[Interest charged] (4 markah/marks)
- ii) Harga ansuran
[Instalment price] (2 markah /marks)
- iii) Kadar faedah
[Interest rate] (2 markah /marks)

- c) Syarikat ABM Solution Sdn.Bhd membeli sebuah mesin penapis air berharga RM25,000. Mesin tersebut dijangka bertahan 5 tahun dan nilai sisa pada akhir tahun ke-5 adalah RM3,000. Menggunakan kaedah garis lurus, kirakan:

[ABM Solution Sdn Bhd Company bought a water filter machine for RM25,000. The machine is expected to last 5 years and its salvage value at the end of 5 years is RM3,000. Using a straight line method, calculate:]

- i) Susutnilai tahunan
[Annual depreciation] (3 markah /marks)
- ii) Kadar susut nilai tahunan
[Annual rate of depreciation] (2 markah /marks)
- iii) Nilai buku
[Book value] (2 markah /marks)

SOALAN TAMAT
[END OF QUESTION]