**KINGDOM OF BAHRAIN**
**MINISTRY OF EDUCATION**
**DIRECTORATE OF EXAMINATIONS / CENTRAL EXAMINATION SECTION**
SECONDARY EDUCATION

**MODEL ANSWEERS**

# RESIT SEMESER EXAM 2022/2023

**COURSE NAME:** Financial Mathematics – 1        **TRACK:** توحيد مسارات
**COURSE CODE  :**   مال 111                              **TIME :** 2 Hours
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## QUESTION ONE:

1-   Write the number  in **letters** or **numbers**  for the following:

**11**

| NO | **Numbers** | Number  in **letters** |
|---|---|---|
| a | 88 | Eighty- eight  // |
| b | 3000,000 | Three-million // |
| c | 0.001 | Thousandths // |
| d | 512.627 // | Five hundred twelve and six hundred twenty-seven thousandths. |
| e | BD 20.825 // | Twenty dinar and eight hundred twenty -five fils |

**5**

2-   Find the place value of the number 1,345,287,369,521 :

| Trillions | | | Billions | | | Millions | | | Thousands | | | Units | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hundred Trillion | Ten Trillion | Trillion | Hundred Billion | Ten Billion | Billion | Hundred Million | Ten Million | Million | Hundred Thousand | Ten Thousand | Thousand | Hundred | Ten | One |
| 0 | 0 | 1¼ | 3¼ | 4¼ | 5¼ | 2¼ | 8¼ | 7¼ | 3¼ | 6¼ | 9¼ | 5¼ | 2¼ | 1 |

**3**
**12x¼**

3- Round the following numbers:

a- Round 2657 to the nearest hundred.      …2700 //.

**3**

b- Round 17.3204 to the nearest hundredths.    …17.32  //……………

c- BD 1,235.25024 to the nearest fils.              …..1235.250 //

## QUESTION TWO:

20 x ½

**10**

Use the currency exchange table below to convert the following currencies:

| Foreign Currency | | Selling BHD | Buying BHD |
|---|---|---|---|
| USA Dollar | USD | 0.378000 | 0.375000 |
| Euro | EUR | 0.449100 | 0.466600 |
| Saudi Arabian Riyal | SAR | 0.100650 | 0.100000 |
| Emirati Dirham | AED | 0.103900 | 0.101400 |
| Egyptian Pound | EGP | 0.024041 | 0.0220521 |
| Jordanian Dinar | JOD | 0.541800 | 0.531800 |

a- You have BHD 2000 Bahraini Dinars and would like to convert it to USA Dollar.

= 2000/// ÷// 0.378// = $ 5291.01 ///    **or**

BHD        USD

0.378//        1

2000//        ??

b- After you return from travel, you have JOD 1500 Jordanian dinar and you want to get the Bahraini dinar.

= 1500/// x// 0.531800// = BHD 797.700///   **or**    BHD        JOD

0.531800//        1

1500//        ??

### QUESTION  THREE:

26 x ½

**13**

a- An employee is engaged for 48 hours during the week at a basic rate of BD 4.000 per hour.

Calculate the gross wage received during the period.

| DAYS | SAT | SUN | MON | TUE | WED | THU |
|------|-----|-----|-----|-----|-----|-----|
| **Hours** | 8 | 8 | 8 | 8 | 8 | 8 |
| **O.T** during the day | 4 | 0 | 3 | 0 | 2 | 0 |

- Regular Wage = (8/ + 8/ + 8/ + 8/ + 8/+ 8/ ) × 4/     =  BHD192 .000/

- Over Time of during the day  = (4/ + 3/ +2 /) × 4/ × 1.25/ =  BHD 45.000/

- Total Wages =192.000/ +/ 45.000/= BHD 237.000/

b- Ali  works as a salesman in a company for a basic salary of BHD 500 per month plus a commission 5% of sales.  If he has made sales of  BHD 6000 . What is the gross salary for this month ?

Commission     = 5%/  ×/  6000/     = BHD 300/

Total gross wage = Basic wage  +  Commission

=     500/     +/     300/          = BHD 800/

## QUESTION FOUR:

26 x ½

13

A- Complete the following invoice, showing the steps of the solution below:

**Gulf Co.**

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**Vat Invoice NO: 25001**     **TRN:** 220045212133401     **Date** : 11/11/2022

Name: MOD H.J     CPR: 854111245XX

| Qty | Item | Unit Price (BHD) | Total (BHD) | |
|-----|------|------------------|-------------|---|
| 2 | Mobile iPhone 14 | 500.000 | (a) | …..1000/ |
| | | Trade Discount **10%** | (b) | … (100)/ |
| | | Net Price | (c) | … 900/ |
| | | Vat **10%** | (d) | …. 90 / |
| | | Payment amount | (e) | ….990/ |

(a) : …..= 500/  x 2/    =1000 /………………………………………………………..

(b): …..= 1000/  x 10%/ =100/…………………………………………………………..

(c) : …..1000/ - 100/ = 900/………………………………………..………………..

(d): ….. 900/x   10%/= 90 /………………………………..………………..

(e) : ….. 900/+ 90/ = 990/ …………………………………………………………

B- A retailer's cost for a Microwave Oven is BHD 80.  The retailer wants 60% mark-up based on cost.  What is the selling price?

selling price  =  ( 80/  x  60% /)    +/  80/ =

=          48/           + 80    =  BD 128/

/3\
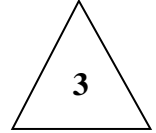
26 x ½

**13**

## QUESTION FIVE:

Find the unknown factors of the following, showing the steps of solution below:

| NO | Principal | Interest Rate | Time / Period | Simple Interest |
|----|-----------|---------------|---------------|-----------------|
| a | BD 1000 | 7% | 5 years | ?? |
| b | BD ??? | 6.5% | 10 months | BD 81.250 |
| c | KWD 2000 | ??% | 135 days | KWD 59.178 |

a-  ………  SI= 1000/ x  7% //  x  5// =  BD 350//

b-  ………P = 81.250 //   ÷//  (  6.5% //  x  10 / ÷ 12/ ) =  BD 1500//

c-  ………i = 59.178 //   ÷//  (  2000 / x    135/  ÷ 365/) =  7.99% or 8%//

إبراهيم حسن أماني

**END OF ANSWER**