| KEMENTERIA<br>PENDIDIKAN<br>MALAYSIA |
|--------------------------------------|
|                                      |



| _          |                             |            |                        |           |
|------------|-----------------------------|------------|------------------------|-----------|
|            | COURSE CODE/<br>COURSE NAME |            | CODE/ DBM2033 DISCRETE |           |
|            |                             |            | MATH                   | IEMATICS  |
| COURSEWORK |                             | COURSEWORK |                        | 1117.4    |
|            | ASSESSMENT<br>SESSION       |            | Q                      | UIZ 4     |
|            |                             |            | DECEM                  | IBER 2018 |
|            | DURATION                    |            | CLO1                   | 10 MARKS  |
|            |                             | 15<br>MINS | CLO2                   |           |
|            |                             |            | CLO3                   | ( )( )    |
|            | TOTAL MARKS                 |            | 101                    | MARKS     |

## JABATAN MATEMATIK, SAINS DAN KOMPUTER

| NAME               | JONG JIA CHEE |  |  |
|--------------------|---------------|--|--|
| REGISTRATION NO.   | 050DT18F1069  |  |  |
| PROGRAMME/ SECTION | DDT2B/JTMK    |  |  |

#### Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

#### **Question 1**

CLO2, C2

[2 marks]

If a girl has 5 skirts, 8 shirts, and 6 pairs of shoes, how many outfits can she wear?

#### Question 2

CLO2, C2

[3 marks]

A college football team plays 10 games during the season. In how many ways can it end the season with 5 wins, 4 losses, and 1 tie?

#### Question 3

CLO2, C2

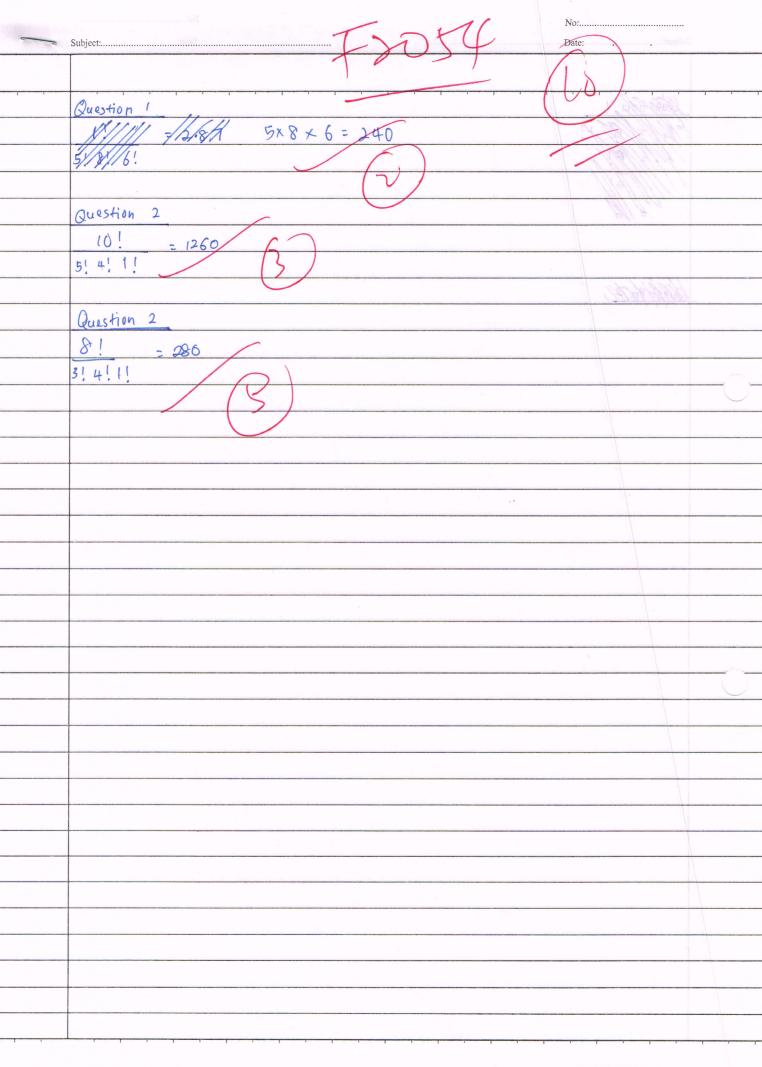
[5 marks]

If eight people eat dinner together, in how many different ways may 3 order chicken, 4 order steak and 1 order lobster?

01 5 x 8 x 6 = 240 outlits

Q2. 10(5 + 10(4 + 10) = 472 ways)

Q3.  $\frac{8!}{3!4!1!} = 280 ways$ 



|   | No.   |
|---|---|
|   | NUR ATHIRAH SYAHIDA BINTI KHALIK OSDDTI8FIIIO DDT2B |
|   |   |
|   | Question 1  |
|   |   |
|   | <sup>3</sup> P <sub>3</sub> = 5 x 8 x G             |
|   | = 240   |
|   |   |
|   | $(\alpha)$  |
|   | Question 2  |
|   | 71001011 2  |
|   | 10 P <sub>3</sub> = 10!                             |
|   | 5, 4, 1,  |
| 4 | = 1200  |
|   |   |
|   | Questian 2  |
|   | Question 3  1 (3+3-1)!  8 P3 = 8!                   |
|   | 31 (8-1)!   |
|   | = 280   |
|   | E-101   |
|   | 72/71   |
|   | 2. 11   |
|   |   |

FURO





| _           |                           |            |                  |          |  |
|-------------|---------------------------|------------|------------------|----------|--|
|             | COURSE CODE/              |            | DBM2033 DISCRETE |          |  |
|             | COURSE NAME<br>COURSEWORK |            | MATHEMATICS      |          |  |
|             |                           |            | QUIZ 4           |          |  |
|             | ASSESSMENT                |            |                  |          |  |
|             | SESSION                   |            | DECEMBER 2018    |          |  |
|             |                           |            | CLO1             | 10 MARKS |  |
|             | DURATION                  | 15<br>MINS | CLO2             |          |  |
|             |                           | 141110     | CLO3             |          |  |
| TOTAL MARKS |                           | 10         | MARKS            |          |  |

## JABATAN MATEMATIK, SAINS DAN KOMPUTER

| NAME               | NUR AFIGAN BY HABA |
|--------------------|--------------------|
| REGISTRATION NO.   | 050071871015       |
| PROGRAMME/ SECTION | DDT2B              |

#### Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

#### Question 1

CLO2, C2

[2 marks]

If a girl has 5 skirts, 8 shirts, and 6 pairs of shoes, how many outfits can she wear?

#### Question 2

CLO2, C2

[3 marks]

A college football team plays 10 games during the season. In how many ways can it end the season with 5 wins, 4 losses, and 1 tie?

#### Question 3

CLO2, C2

[5 marks]

If eight people eat dinner together, in how many different ways may 3 order chicken, 4 order steak and 1 order lobster?

Question 1

skirts X 8 Shirts X 6 pairs shoes

5 x 8 x 6 - 240 ways

Ruestion 2

101.

= 1260 ways

Question 3

- 80

=8P4:1680

8= 98=

= 2024 ways

|                                       | W. 11.1.1        |                             |            |                                 |          |
|---------------------------------------|------------------|-----------------------------|------------|---------------------------------|----------|
| KEMENTERI                             |                  | COURSE CODE/<br>COURSE NAME |            | DBM2033 DISCRETE<br>MATHEMATICS |          |
| PENDIDIKAN<br>MALAYSIA                | POLITEKNIK       | COURSEWORK<br>ASSESSMENT    |            | QUIZ 4                          |          |
|                                       |                  | SESSION                     |            | DECEMBER 2018                   |          |
| JABATAN MATEMATIK, SAINS DAN KOMPUTER |                  |                             |            | CLO1                            | 10 MARKS |
| NAME                                  | Flarelynn Kalong | DURATION                    | 15<br>MINS | CLO2                            | 1        |
| REGISTRATION NO.                      | 0500718F10G7     |                             | MIIIVO     | CLO3                            | ( )      |
| PROGRAMME/ SECTION                    | DDT2B            | TOTAL M.                    | ARKS       | 10 1                            | MARKS    |

#### Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

#### Question 1

CLO2, C2

[2 marks]

If a girl has 5 skirts, 8 shirts, and 6 pairs of shoes, how many outfits can she wear?

#### Question 2

CLO2, C2

[3 marks]

A college football team plays 10 games during the season. In how many ways can it end the season with 5 wins, 4 losses, and 1 tie?

#### Question 3

CLO2, C2

[5 marks]

If eight people eat dinner together, in how many different ways may 3 order chicken, 4 order steak and 1 order lobster?

Answer

5 × 8 × 6

lol .

514111

1260 ways

Question 3

(n+r-1)!

r!(n-1)1

= (8+3-1)

31(8-1)1

= 101

3! (7)!

=-120 ways

Answer Plystian 1. = (outfit) 5 Skirts 8 shirts 6 pairs of shores. 5+8+6=19 19 outfits an shecker.Ansver Question 2. 10 games, Sin, 4 loses, to Answer 92  $= \frac{10!(10-1)!}{(10+10-1)!}$ Answer Question 3. = (n+r-1)!F.(n-D!/ =93,370 ways pb = N/(4-L);  $\frac{(p-r)}{nb^{2}}$  $|^{0}P_{10} = \frac{|_{0}!}{(|_{0}-|_{0})!}$ := 3,628,800 ways

#### Question 1

= 240 outfit .

# Question 2.

$$\begin{array}{c} 10 \\ P \\ 4 \end{array} = \begin{array}{c} 10! \\ (10-4)! \\ \vdots \\ \hline 6! \\ \vdots \\ \hline 5040 \end{array}$$

# Question 3

$$\frac{(8+3-1)!}{3!(8-1)!} = \frac{10!}{3!7!}$$

$$\frac{(8+4-1)!}{4!(8-1)!} = \frac{11!}{4!7!}$$

$$\frac{(8+1-1)!}{1!(8-1)!} = \frac{8!}{1!7!}$$

$$\begin{array}{c} 10 & p & = 10! \\ \hline & (10-1)! \\ & = \frac{10!}{9!} \\ & = 10 \end{array}$$

| KEMENTEI<br>PENDIDIKA<br>MALAYSIA | POLITEKNIK                |
|-----------------------------------|---------------------------|
| JABATAN MATE                      | MATIK, SAINS DAN KOMPUTER |
| NAME                              | chai Siaw Huna            |
| REGISTRATION NO.                  | 0600110x 1066             |

| _ |                             |                |                  |           |  |
|---|-----------------------------|----------------|------------------|-----------|--|
|   | COURSE CODE/<br>COURSE NAME |                | DBM2033 DISCRETE |           |  |
|   |                             |                | MATH             | IEMATICS  |  |
|   | COURSEWORK                  |                | QUIZ 4           |           |  |
|   | ASSESSMENT                  |                |                  |           |  |
|   | SESSION                     | SESSION        |                  | IBER 2018 |  |
|   |                             | RATION 15 MINS | CLO1             | 10 MARKS  |  |
|   | DURATION                    |                | CLO2             |           |  |
|   |                             |                | CLO3             |           |  |
| 1 | TOTAL MARKS                 |                | 10               | MARKS     |  |

#### Instructions

PROGRAMME/ SECTION

Answer ALL questions. Write your answers in the spaces provided.

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Show your working to get marks. You may use a non-programmable scientific calculator.

#### Question 1

CLO2, C2

[2 marks]

If a girl has 5 skirts, 8 shirts, and 6 pairs of shoes, how many outfits can she wear?

#### Question 2

CLO2, C2

[3 marks]

A college football team plays 10 games during the season. In how many ways can it end the season with 5 wins, 4 losses, and 1 tie?

#### Question 3

CL02, C2

[5 marks]

If eight people eat dinner together, in how many different ways may 3 order chicken, 4 order steak and 1 order lobster?

## Question 1:

5x8 x6: 240 outfi

Question 2:

10 P5 x 10 P4 x 10 P1 = 1524 096000 ways

10C5 x 5C4 = 1260

# Question 3:

8P3 X8P4 x 8P1 = 4515 840 Ways.

8 C3 x 5 C2 = 280.