| Universiti |  |  |  |
| :--- | :--- | :--- | :--- |
| Malaysia <br> PAHANG | FACULTY OF INDUSTRIAL SCIENCES \& TECHNOLOGY | MARKS |  |
| DISCRETE MATHEMATICS AND APPLICATIONS | CODE: <br> BUM 1233 | TOPIC: NUMBER THEORY |  |
| ASSESMENT: QUIZ 1 | SET A | DURATION: 10 MINUTES |  |
| NAME: | MATRIC NO: |  |  |

Instructions: Please answer all question and show your workings clearly.

## Question 1

Given $\operatorname{GCD}(12, b)=6$ and $\operatorname{LCM}(12, b)=60$. What is the value of $b$ ?
(2 Marks)

## Question 2

Let $p=25 \operatorname{div} 7$ and $q=17 \bmod 3$. Determine the value of $p+q$.
(3 Marks)

## Question 3

Determine the $\operatorname{GCD}(6,28,45)$ using prime factorization method. Are these integers relatively prime?
(5 Marks)

| Universiti |  |  |  |
| :--- | :--- | :--- | :--- |
| Malaysia <br> PAHANG | FACULTY OF INDUSTRIAL SCIENCES \& TECHNOLOGY | MARKS |  |
| DISCRETE MATHEMATICS AND APPLICATIONS | CODE: <br> BUM 1233 | TOPIC: NUMBER THEORY |  |
| ASSESMENT: QUIZ 1 | SET A | DURATION: 10 MINUTES |  |
| NAME: | MATRIC NO: |  |  |

Instructions: Please answer all question and show your workings clearly.

## Question 1

Given $\operatorname{GCD}(12, b)=6$ and $\operatorname{LCM}(12, b)=60$. What is the value of $b$ ?
(2 Marks)

## Question 2

Let $p=25 \operatorname{div} 7$ and $q=17 \bmod 3$. Determine the value of $p-q$.
(3 Marks)

## Question 3

Determine the $\operatorname{GCD}(6,28,45)$ using prime factorization method. Are these integers relatively prime?
(5 Marks)

| Universiti |  |  |  |
| :--- | :--- | :--- | :--- |
| Malaysia <br> PAHANG | FACULTY OF INDUSTRIAL SCIENCES \& TECHNOLOGY | MARKS |  |
| DISCRETE MATHEMATICS AND APPLICATIONS | CODE: <br> BUM 1233 | TOPIC: NUMBER THEORY |  |
| ASSESMENT: QUIZ 1 | SET A | DURATION: 10 MINUTES |  |
| NAME: | MATRIC NO: |  |  |

Instructions: Please answer all question and show your workings clearly.

## Question 1

Given $\operatorname{GCD}(12, b)=6$ and $\operatorname{LCM}(12, b)=60$. What is the value of $b$ ?
(2 Marks)

## Question 2

Let $p=25 \operatorname{div} 7$ and $q=17 \bmod 3$. Determine the value of $p \cdot q$.
(3 Marks)

## Question 3

Determine the $\operatorname{GCD}(6,28,45)$ using prime factorization method. Are these integers relatively prime?
(5 Marks)

