

### Block II Examination March 2017 Intake

## Higher Diploma in Science in Data Analytics

August 2017

Module Code: B8IT116

Module Title: Operating Systems and Net-

works

Examiner: Paul Laird

Moderator: Dr Shazia A Afzal

External Examiner: Dr Faheem Bukhatwa

Date: 2 August 2017

Time: 14:00

#### **INSTRUCTIONS TO CANDIDATES**

1. TIME ALLOWED: 2 HOURS

- 2. This examination paper contains FOUR questions.
- 3. Question ONE is compulsory.
- 4. Answer any TWO other questions.

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# Question 1

a. Sub question 1 (8 marks)

b. Sub question 2 (10 marks)

c. Convert the following to binary:

• 1

• 11

• 111

• 1111

(4 marks)

d. Sub question 4 (4 marks)

e. Sub question 5 (4 marks)

f. Sub question 6 (10 marks)

(Total: 40 marks)

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## Question 2

a. Sub question 1 (6 marks)

b. Sub question 2 (8 marks)

c. Sub question 3 (8 marks)

d. Sub question (8 marks)

(Total: 30 marks)

## Question 3

a. Explain in detail the following Bash script.

#!/bin/bash

while read item; do
echo hello \$item

done <\$1 (12 marks)

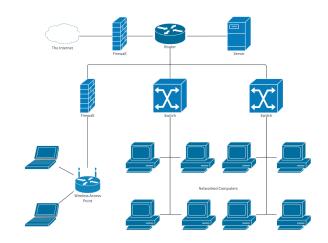
b. Sub question 2 (10 marks)

c. Sub question 3 (8 marks)

(Total: 30 marks)

# Question 4

### Consider the following network diagram:



- a. Sub question 1 (9 marks)
- b. Sub question 2 (6 marks)
- c. Sub question 3 (15 marks)

(Total: 30 marks)

#### **END OF EXAMINATION**