

THE OPEN UNIVERSITY OF SRI LANKA B.Sc. DEGREE PROGRAMME: LEVEL 03

CLOSED BOOK TEST - 2: 2013/2014

CPU1141: INTRODUCTION TO COMPUTER PROGRAMMING

DURATION: ONE HOUR (1 HOUR)

Date: 10th April 2014

Time: 12.45pm - 01.45pm

Answer ALL questions.

Q1.

- a) Briefly describe the three types of Pascal Operators.
- b) Write down the output value of X, Y, Z if A=8, B=5 and C=3.

- c) What are the differences between the **Repeat Until loop** and **While loop** in Pascal programming language.
- d) Write the output of the program given below.

```
PROGRAM example (INPUT,OUTPUT);

VAR

i, j:integer;

BEGIN

FOR i := 2 TO 50 DO

BEGIN

FOR j := 2 TO i DO

IF (i MOD j)=0 THEN

break;

IF(j = i) THEN

WRITELN(i, 'is prime');

END;

END.
```

e) Convert the above Pascal program in to C program.

- a) Write the two advantages of using arrays in programming languages?
- b) State whether the following C statements are **True** or **False**.
 - i. The array declared as int num[15] has fifteen element in the array.
 - ii. The expression num[15] refers the fifteenth element in the array.
 - iii. The expression num[1] refers the second element in the array.
- c) Write a complete C program to **read** six marks a student has scored in six consecutive exams and **display** the highest score out of the six marks. (Note-Use **for loops** with **arrays** and a defined constant for size of the array).

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