Nepal College of Information Technology

Unit Test

Fall 2011

Program	:	BE ELX	Time	:	2 hrs
Semester	:	Fall (II)	FM	:	70
Subject	:	Programming in C	PM	:	35

- ✓ Candidates are requested to give their answer as far as practicable in their own words.
- ✓ *The figure in the margin indicates the full marks*

✓ Attempt <u>ALL</u> question

- 1. a) Explain different generations of computer. Briefly distinguish high level language from low level language. 8
 - b) What are algorithm and flow charts? Draw a flow chart which prints the highest of three numbers.
- 2. a) What is an operator? List and briefly describe different types of operators used in C programming language. 8
 - b) What is an identifier? Specify the rules for defining it.

 Determine which of the following are valid identifiers if not specify the reason.
 - (i) Array (ii) for (iii) l_name (iv) name and address
- 3. a) Write a menu driven program to perform following tasks according to the user input.

 MENU
 - i) To print the numbers in series (1 2 3 4 5 6...)
 - ii) To find the number is odd or even.
 - iii) To print cube of a number.
 - iv) To print "thank you for using my program" message.
 - b) Write the complete program which will generate the following output.

 0 2 3 4 5

 1 0 3 4 5
 - 12045 12305
 - 12343
 - c) What will be the output after the execution of the following code?

- 4. a) What is a function? What are the benefits of using them? Write a program using function (any type) to generate the Fibonacci Series (1, 1, 2, 3, 5, 8, 13......) up to nth terms. 8
 - b) If A=17, B= 6 & C =2 what will be the final values of A, B & C after the execution of following statements.

2*5=10

5. Write short notes on (any two)

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- while and do-while loop
- b) Constants and variable
- c) Program Documentation