SECOND SEMESTER B.Sc. DEGREE EXAMINATION, 2014

Computer Science (Optional)

PROGRAMMING IN C

(New)

Time :3 Hours Maximum :80 Marks

Instructions to Candidates:

Answer any **FIVE** full Questions

I. a) What are the features of C?

b) Explain the execution of C program with block diagram (flow chart).

c) What do you mean by variables & constants? How the variable is declare & initialize? **(2+8+6=16)**

II a) Explain in detail the formatted input function in C with examples.

b) Write a C program to print the following diagram

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III a) Define operators. Briefly explain the operators available in C language.

b) Write a C program to find the area of circle using symbolic constant. **(12+4=16)**

IV. a) What do you mean by control structures in C? Briefly explain different forms of **if** statement in C.

b) Discuss on any two looping statements with suitable examples. **(10+6=16)**

V. a) Define Array. Explain how one dimensional array is declared, initialized & memory representation.

b) Explain the following string handling functions with examples.

i) Strlen ii) Strcmp iii) Strcpy & iv) Strcat **(8+8=16**

VI. a) Discuss on various categories of functions with suitable examples.

b) Write a C program to find factorial of a given number using recursion.

(12+4=16

VII. a) Define pointer. Write a C program to swap two numbers using pointer.

b) What is structure? How do we access structure members? Illustrate witl example. **(8+8=16**

VIII. Write a short note on:

a) Unformatted i/o statements in C.

b) Go to statement.

c) C Tokens.

d) User defined data types. **(4×4=16**