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**B.Sc. II Semester Degree Examination, May/June 2017**  
**COMPUTER SCIENCE**  
**Programming in 'C'**

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) *All Sections are compulsory.*  
2) *Draw appropriate diagrams wherever necessary.*

I. Answer to **any ten** of the following : (2×10=20)

- 1) Define Flow Chart. Draw any two symbols used for Flow Chart.
- 2) Write any four rules for identifiers.
- 3) Write the syntax for conditional operator with an example.
- 4) Give an example for converting a variable from float to integer using type conversion.
- 5) List out different types of decision making and branching statements.
- 6) If  $x = 9$ ,  $y = x++$  &  $z = x(++y)$ , then what are the values of  $y$  &  $z$ .
- 7) Define array. Give the syntax for declaring an array.
- 8) Mention any four string handling functions.
- 9) List any four character strings.
- 10) Give the syntax for function definition.
- 11) Mention two differences between structure and unions.
- 12) Define pointer with syntax of declaration.

II. Answer **any six** of the following :

(5×6=30)

- 1) Write a note on problem solving methodology.
- 2) Explain structure of C-program.
- 3) Explain input/output statements with syntax and examples.
- 4) Explain different looping statements with syntax and examples.

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- 5) Write a program to sort the given elements in an array.
- 6) Explain recursion with an example.
- 7) Write a program to convert upper case letters of a string to lower case and vice versa using string handling functions.
- 8) Write a note on declaring and initialising a pointer.

III. Answer to **any three** of the following :

(10×3=30)

- 1) Write a note on different types of operators used in C.
- 2) Explain decision making statements with syntax, example and flowchart.
- 3) Write an algorithm, flowchart and program to print n elements in a Fibonacci series.
- 4) Explain different types of functions with syntax and example.
- 5) Explain structure with an example program.