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Roll No.

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B.Sc.(CS) (2013 & Onwards) (Sem.-1) PROBLEM SOLVING AND PROGRAMMING IN C Subject Code : BCS-106 Paper ID : [A2186]

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.

SECTION-A

1. Answer briefly :

- a) What is Flowchart? What are its uses?
- b) Briefly discuss the structure of a C program.
- c) What is a switch statement? Discuss its format.
- d) Differentiate between parameter passing by value and by reference.
- e) Define Recursion. How recursion is implemented in C?
- f) What is a String? Name the various string processing operation available in C.
- g) What is a Pointer? How is a pointer declared in C?
- h) What are pre-processor directives?
- i) Explain the purpose of break and continue statements.
- j) Give an example of a nested structure.



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SECTION-B

- 2. Explain in detail the steps in the development of a program.
- 3. What are the various control structures available in C? Discuss and compare looping constructs giving suitable examples.
- 4. What are the various storage classes used in C? Discuss the purpose and use of each.
- 5. Write a program in C to multiply two given matrices.
- 6. What is a structure? What are the operations that can be performed on a structure? What is the difference between structure and union?
- 7. What are files? How a file is declared and defined in C? Discuss the functions to open, close, read and write data files in C.

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