FACULTY OF SCIENCE
B.Sc. I-Semester (CBCS) Examination, December 2016
Subject: Computer Science
Paper - I: Programming in C

Time: 3 Hours

Max. Marks: 80

PART - A (5 x 4 = 20 Marks)
(Short Answer Type)
Note: Answer any FIVE of the following questions.

1. What is a computer? Explain the classification of computers.
2. Explain the different types of program statements in C.
3. Explain conditional operator in C with an example program.
4. What is an array? Explain with an example.
5. Write short notes on functions.
6. Write short notes on malloc and calloc functions.
7. Differentiate between structure and unions.
8. Explain Stream I/O model in files.

PART - B (4 x 15 = 60 Marks)
(Essay Answer Type)
Note: Attempt ALL the questions.

9. (a) Explain major hardware components of a computer in detail.
   OR
   (b) Explain types of operators in C with example programs.

10. (a) Explain for loop, while loop, do-while loop in C with an example program each.
    OR
    (b) Explain string functions in C with example programs.

11. (a) Explain storage classes in C with an example program each.
     OR
     (b) Explain declaration, initialization and accessing of pointers in C with an example program.

12. (a) Explain declaration, initialization and accessing of structure data type with syntax and example program.
     OR
     (b) Explain functions used to work with text files for reading and writing text.

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