



NS – 353

I Semester B.A./B.Sc. Examination, November/December 2016
(Semester Scheme) (CBCS) (F+R)
(2014-15 and Onwards)
COMPUTER SCIENCE – I
Programming Concepts Using C

Time : 3 Hours

Max. Marks : 70

Instruction : Answer all the Sections.

SECTION – A

I. Answer any 10 questions. Each question carries 2 marks : (2×10=20)

- 1) What is an algorithm ? Write its features.
- 2) What is the difference between prefix increment and postfix increment ? Illustrate with an example.
- 3) Compare printf () and puts () functions.
- 4) Write the difference between entry controlled and exit-controlled loops.
- 5) What are formal parameters ? Explain.
- 6) Explain an array with example.
- 7) What are the possible operations on strings ? List them.
- 8) What are static variables ? Explain it.
- 9) Differentiate between a character and a string with an example.
- 10) What is a pointer ? How it is declared ?
- 11) Explain command line arguments.
- 12) Compare printf and fprintf functions.

SECTION – B

II. Answer any 5 questions. Each question carries 10 marks : (5×10=50)

- 13) a) Write an algorithm for largest of three numbers. 4
- b) Write the different data types available in C. Give an example for each. 6

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- 14) a) What are different symbols used in flow chart ? Explain their usage. 5
b) Write the basic structure of an C program. Illustrate with an example. 5
- 15) a) Explain the different format specifiers for printf () and scanf () functions. 4
b) Explain switch-case statement with an example. 6
- 16) a) Explain the working of if () and if-else () statements with an example. 4
b) Write a C program to generate a range of prime numbers using a function. 6
- 17) a) Write a C program to transpose a given matrix. 5
b) Explain any five mathematical library functions with an example. 5
- 18) a) Write a C program to find the largest and smallest of numbers. Use 1-D array. 5
b) Write a C program to demonstrate the call by reference method. 5
- 19) a) Explain four storage classes of C. 5
b) Differentiate between a structure and a union with an example. 5
- 20) a) Explain file access models in 'C' ? 5
b) What are macros ? Explain with an example. 5

SECTION-B

11. Answer any 5 questions. Each question carries 10 marks. (5x10=50)
- (13) a) Write an algorithm for largest of three numbers. 4
b) Write the different data types available in C. Give an example for each. 6