



UN – 198

I Semester B.A./B.Sc. Examination, November/December 2015
(2014 – 15 & Onwards) (CBCS) (F+R)
COMPUTER SCIENCE – I
Programming Concepts using C

Time : 3 Hours

Max. Marks : 70

Instruction: Answer *all* the Sections from 2014 – 2015 (CBCS) Onwards.

SECTION – A

- I. Answer **any ten** questions. **Each** question carries **2** marks. (2×10=20)
- 1) What is structured programming? Explain.
- 2) Why is 'C' called a middle level language? Justify.
- 3) What is the difference between getch () and getchar () functions?
- 4) What are nested loops? Explain.
- 5) Give any 2 advantages of using a function.
- 6) How are the elements in an array stored in the memory?
- 7) What is string? Mention operation on a string.
- 8) How do you input a string? Give example.
- 9) What is enumerated data types? Give example.
- 10) Define a structure with an example.
- 11) Compare printf () and fprintf () functions.
- 12) What is macro? List the types of macro.

SECTION – B

- II. Answer **any 5** questions. **Each** question carries **10** marks. (5×10=50)
- 13) a) Draw a flow chart to find the roots of a quadratic equation showing all possible conditions. (5+5)
- b) Explain the different data types supported by 'C'. (5+5)
- 14) a) Write the structure of a C program with an example. (5+5)
- b) Explain any five mathematical library functions with examples. (5+5)



- 15) a) Explain switch - case statement with an example. (5-5)
b) Differentiate between formal and actual parameters.
- 16) a) Write a C program to print sum of two matrix. (5-5)
b) Explain the four storage classes of 'C'.
- 17) a) Differentiate between a structure and a union with an example. (5-5)
b) Differentiate between call-by-value and call by reference with an example.
- 18) a) Write a program to define a structure of an employee with id, name and basic pay, read and print the information. (5-5)
b) Explain static and dynamic memory allocation.
- 19) a) What are the different modes of opening a text file ? Explain with examples. (5-5)
b) What are user defined header files ? Explain the creation and implementation of header files.
- 20) a) Write a 'C' program to create a text file and print the same. (6-4)
b) What are nested macros ? Explain with examples.