



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.



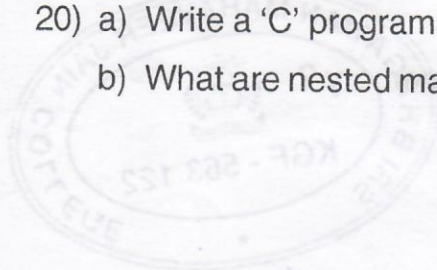
SECTION – B

- 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.  
b) Explain the different data types supported by 'C'. (5+5)
  - 14) a) Write the structure of a C program with an example.  
b) Explain any five mathematical library functions with examples. (5+5)

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



## SECTION - B

(8x10=80)

(5+5)

(5+5)

P.T.O.