

I Semester B.A./B.Sc. Examination, November/December 2018 (CBCS) (2014-15 and Onwards) (Freshers + Repeaters) COMPUTER SCIENCE – I Programming Concepts Using 'C'

Time: 3 Hours Max. Marks: 70

Instruction : Answer all Sections.

SECTION - A

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

- 1) What are language translators?
- 2) Write the basic structure of C program.
- 3) Explain getchar() and putchar() functions.
- 4) Write the general sytax of switch statement.
- 5) What is a built-in function? Give any 2 examples.
- 6) How are individual elements of a two-dimensional array accessed?
- 7) What are the different methods of inputting strings? Give examples.
- 8) Differentiate between automatic and external variables.
- 9) What is the difference between structure and union?
- 10) What do you mean by call-by-value and call-by-reference?
- 11) What are the different modes of opening a file?
- 12) What is preprocessor directive?

SECTION - B

II. Answer any 5 questions. Each question carries 10 marks. (10x	
13) a) i) Write an algorithm to find largest of 3 numbers.	5=50
ii) What are increment and decrement operators? Explain with	5
examples. Explain with	
OR OR	5
b) i) Write a flowchart to find the factorial of a given number.	
different relational operators	5
14) a) i) Explain the printf() function with general syntax.	5
	5
b) i) Write a C program to find sum parst N natural numbers. ii) Explain recursion with an example.	5
b) i) Write a C program to find a Class	
ii) Explain recursion with an example.	5
15) a) i) What are the advantages of arrays?	5
ii) Explain and 5	5
05	5
The state of the s	
of a program to find the roots of a quadratic	5
a o program to reverse a given string	5
16) a) i) Define a C structure to store student details name, register number, marks in 3 subjects, total and average marks.	
ii) Explain pointers	5
OR OR	5
The state of the s	
b) i) Explain briefly the different file operations.	5
ii) Define and explain macro with an example.	5
ii) Explain nested if statement	5
ii) Explain nested if-statement. OR	5
OR OR	
b) i) Explain the different types of array.	
ii) Write a program to find the smallest element in an array.	5
	5