



SN – 288

I Semester B.A./B.Sc. Examination, Nov./Dec. 2014
(CBCS) (Fresh)
(2014-15 and Onwards)
COMPUTER SCIENCE – I
Problem Solving Through C Programming

Time : 3 Hours

Max. Marks : 70

Instruction : Answer *all* the Sections.

SECTION – A

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

- 1) Write the features of 'C' program.
- 2) What is flowchart ? Mention its types.
- 3) What are C tokens ?
- 4) If $a = 20$, $b = 40$, what is X if $X = a + (+ + b)$?
- 5) Mention the syntax of printf and scanf functions.
- 6) Explain nested IF statement.
- 7) What is structure ? How to initialize a structure ?
- 8) What is a string ? Write any two operations on string.
- 9) Mention types of functions.
- 10) What is pointer ? Mention its syntax.
- 11) What is File ? How to declare a file ?
- 12) What are macros ? Mention types of macros.

SECTION – B

II. Answer **all** the questions. **Each** question carries **ten** marks. **(10×5=50)**

- 13) a) i) Explain the structure of a 'C' program with example.
ii) Write an algorithm to generate N natural numbers. **(5+5)**
- OR
- b) i) Write a flowchart to reverse the given number.
ii) Explain the different types of arrays with an example. **(5+5)**

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- 14) a) i) Explain the working of switch statement with a suitable example.
ii) Explain automatic and external storage classes with an example. (5+5)

OR

- b) i) Discuss various operators supported by 'C' language.
ii) Differentiate between while and do-while statements in C. (6+4)
- 15) a) i) Write a C program to find sum of matrices.
ii) Briefly explain go-to statement in C. (7+3)

OR

- b) i) Write a C program to find factorial of a given number.
ii) What is function ? Give an example.
iii) Write a 'C' function to find the largest of two numbers. (4+3+3)
- 16) a) i) What do you mean by structures ? Explain with example.
ii) What is type def in C ? Explain with an example. (7+3)

OR

- b) i) Explain function with arguments and with return values with an example.
ii) Write a C program pointers. Find the length of a given string using. (5+5)
- 17) a) i) Write a C program to illustrate an array of structures.
ii) Explain pointers to pointers concept in 'C'.
iii) Mention the rule for defining a pre processor. (5+3+2)

OR

- b) i) What is a file ? Explain the three modes of file.
ii) Write a note on command line arguments. (7+3)
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