



SN – 289

I Semester B.A./B.Sc. Examination, November/December 2014
(Semester Scheme)
(Repeaters) (2013-14 Only)
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) Define the term Algorithm and Flow chart.
 - 2) Explain the basic data types.
 - 3) What are tokens ?
 - 4) Difference between pre-increment and post-increment with example.
 - 5) Define string with example.
 - 6) Explain switch statement with syntax.
 - 7) Define macro.
 - 8) Explain ternary operator.
 - 9) What are actual and formal parameters ?
 - 10) Define pointer with example.
 - 11) What is file ? How will you open and close a file in C ?
 - 12) Write a note on command line arguments.

SECTION – B

- II. Answer **all** the questions. **Each** question carries **ten** marks. (10×5 = 50)
- 13) a) i) Explain the structure of C program.
ii) What is variable ? What are the rules for defining the variable ?
iii) Enlist the features of C. (5+3+2)
- OR
- b) i) Write an algorithm to reverse a given number.
ii) Write a short note on input and output statements used in C.
iii) What is array ? How to declare an array ? Explain with example. (4+3+3)

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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)