



GN-264

100309

I Semester B.A./B.Sc. Examination, December - 2019
(CBCS) (F+R) (2014-15 and Onwards)

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 questions carries **2** Marks : **10x2=20**
1. Define an algorithm ? Write an algorithm to find the largest of three integers.
 2. What is structured programming ?
 3. What do you mean by local and Global variables ?
 4. What is preprocessor Directives ? Mention the 3 categories of preprocessor directives.
 5. Give the syntax of `scanf()` and `printf()` function.
 6. How switch statement is different from if statement ?
 7. Explain Ternary operator.
 8. What is the difference between break and continue statement ?
 9. Which function is used to convert string to number ?
 10. Define function ? What are the different type of functions ?
 11. What is the difference between structure and union ?
 12. What is a pointer ? What are the two ways of passing parameters to the function ?

P.T.O.



SECTION - B

- II. Answer **any five** questions. Each question carries **10** marks : **5x10=50**
13. (a) Write an Algorithm and flowchart for finding the factorial of a number. **6**
(b) Explain the structure of 'C' program. **4**
14. (a) What is Data type ? Explain different data types used in C. **5**
(b) What are the Difference between formatted and unformatted input and output statements ? **5**
15. (a) Explain the branching statements in C with examples. **5**
(b) Write a program to sort an Array using bubble sort. **5**
16. (a) What is An Array ? How to Declare and Initialize One Dimensional and Two Dimensional Arrays ? **5**
(b) Write a program to find sum of digits of given numbers, using while loop. **5**
17. (a) Explain the Different types of storage classes in C. **5**
(b) Write a program to compare two strings without using Library functions. **5**
18. (a) Explain the following Terms : **5**
(i) Pointer
(ii) Pointer to Pointer ?
(b) Explain call by value and call by references. **5**
19. (a) What is Macro ? Explain the Macro Definition with example. **5**
(b) Explain Dynamic Memory Allocation ? **5**
20. (a) What is a File ? Explain the File Access methods in C. **5**
(b) Write a C program to copy content of one file to another file. **5**

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