



QP – 259

I Semester B.Sc. Examination, April/May 2021  
(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** question carries **2** marks. **(10×2=20)**
- 1) What are the advantages of high level language over machine language ?
  - 2) Mention any two differences between compilers and interpreters.
  - 3) Write an algorithm to find sum of two numbers.
  - 4) Define flow chart. Mention the symbols used.
  - 5) What is conditional operator ?
  - 6) Differentiate between break and continue statement.
  - 7) What is an array ? Define an array to store marks of 30 students in 3 subjects.
  - 8) What is recursion ?
  - 9) What is the purpose of using a pointer ?
  - 10) Give any 2 differences between structures and union.
  - 11) What are Unions ?
  - 12) What are preprocessor directives ?

SECTION – B

- II. Answer **any five** questions. **Each** question carries **10** marks. **(5×10=50)**
- 13) Explain the different types of operators used in C. **10**
  - 14) a) Write a detailed note on C data types. **5**  
b) Define algorithm. Write characteristics of algorithm. **5**

P.T.O.



- 15) a) Write and explain about switch statement. 5  
b) Write a C program to perform arithmetic operations using switch. 5
- 16) a) Explain else-if-ladder with the help of flow chart. 5  
b) Define and declare a structure. Write any three uses of structure. 5
- 17) a) What are string handling functions ? Explain their uses. 5  
b) Define an array of strings. How to initialize one-dimensional array ? Explain with suitable examples. 5
- 18) a) Define pointer. How to declare and initialize a pointers ? 5  
b) Write a C program to illustrate the use of pointers. 5
- 19) a) What are Macros ? Explain with example. 5  
b) Write a C program to create a text file and print the same. 5
- 20) a) Write a short note on storage classes. 5  
b) Write a C program to find the LCM and GCD of 2 numbers. 5