

[Total No. of Pages : 3

## **BSCS-SN101**

B.Sc. DEGREE EXAMINATION, JUNE - 2022

COMPUTER SCIENCE

Problem Solving in C

(Semester - I) (CBCS Pattern) (New regulation)

(w.e.f. 2021-22 Admitted Batch)

**(THE STUDENT MUST ANSWER THE  
QUESTIONS IN ENGLISH MEDIUM ONLY)**

**Time : 3 Hours**

**Max. Marks : 75**

### **SECTION - A**

**(5 × 5 = 25)**

Answer any FIVE of the following questions

1. Define algorithm. What are the key features of algorithm.
2. What are the parts of Block diagram of a computer.
3. What are bit wise operators? Explain with examples.
4. How are multi-dimensional arrays useful?
5. How is 2D array represented in memory?
6. Explain about Enumerated data type.
7. Write a short note on pointers?
8. What is file? Why do we need to store data in files?



# BSCS-SN101

## SECTION - B

(5 × 10 = 50)

Answer FIVE Questions

9. a) Discuss the variants of microcomputers that are widely used today.

OR

- b) Describe about generations of programming languages.

10. a) What are the basic Data types in C. Explain with examples.

OR

- b) What are iterative statements in C-language. Explain with syntax and examples.

11. a) Write C program to sort array elements.

OR

- b) Give an examples for string handling functions.



## BSCS-SN101

12. a) Differentiate between call-by-value and call-by-reference using suitable example.

OR

- b) Differentiate between a structure and union.

13. a) Explain array of pointers.

OR

- b) Write a short note on functions that are used to
- i) Read data from a file.
  - ii) Write data to a file.

