

[21-BS125]

AT THE END OF FIRST SEMESTER (CBCS- PATTERN)  
DEGREE EXAMINATIONS

COMPUTER SCIENCE-I- PROBLEM SOLVING IN C  
UG PROGRAM (4 YEARS HONORS)

(W.e.f. Admitted Batch 2020-21)

Time : 3 Hours

Maximum : 75 Marks

SECTION - A

- I. Answer any Five questions. Each question carries 5 marks. (5×5=25)
1. Discuss key features of an algorithm.
  2. Explain various Data types available in C.
  3. Write a program to calculate addition of given two matrices.
  4. Discuss Scope of variables.
  5. Explain Error handling during file operations.
  6. Explain the Block diagram of a computer with neat diagram.
  7. Explain about Nested Loops.
  8. Write about Enumerated data type in detail.

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SECTION - B

- II. Answer All the questions. Each question carries 10 marks. (5×10=50)

9. a) Write about Characteristics and limitations of a computer.

(OR)

b) Explain about Generations of Programming languages.

10. a) Explain the Basic structure of a C program in detail.

(OR)

b) Write a C program to calculate the sum of individual digits of a given number.

11. a) Write a program to find the smallest and largest of given 'n' numbers using array.

(OR)

b) Explain various string handling functions with syntax and example.

(3)

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12. a) Explain various parameter passing techniques.

(OR)

- b) Explain about Structures in detail.

13. a) Explain about DMA.

(OR)

- b) Explain different file modes with a example.

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