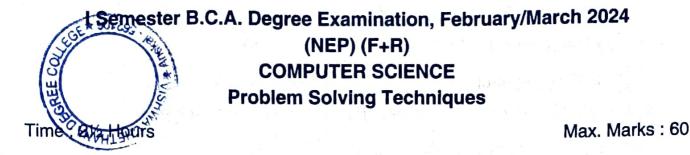


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(4×2=8)

 $(4 \times 5 = 20)$



Instruction : Answer any four questions from each Part.

PART – A

Answer any four questions, each question carries 2 marks.

- 1. Mention any two characteristics of an algorithm.
- 2. Define an identifier. Give an example for a valid identifier.
- 3. What is a constant ? How it is declared in C ?
- 4. What is modular programming ?
- 5. Give the general syntax of if-else statement.
- 6. What is an array ? How is it initialized ?

PART – B

Answer any four questions, each question carries 5 marks.

- 7. Write an algorithm for summation of N-natural numbers.
- 8. Explain the syntax of switch-case statement with an example.
- 9. What is data type ? Explain different data types with an example each.
- 10. Write a program to find the sum of all the digits of a given integer.
- 11. Mention any five string library functions.
- 12. Write an algorithm to perform hash search on the given set of elements.

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PART – C

Answer any four questions, each question carries 8 marks. (4×8=3	12)
13. a) Explain loop control structures in C with a general syntax for each.b) What is the differences between break and continue statements ?	6 2
14. Write a program to multiply two matrices.	8
15. a) Distinguish structure and union with an example.b) Explain orders of growth.	4 4
16. a) What is a pointer ? Write a program to find the size of integer, character and real pointers.	6
b) Write an algorithm to find the smallest exact divisor of an integer.	2
17. a) Write an algorithm to find the maximum element in an array of size 'N'.b) Write a C program to swap the values of two variables.	4 4
18. a) Write a C-program to sort n-numbers using bubble sort.b) Explain pattern searching.	6 2