

Q.P. Code : 25124

**First Semester B.Voc.(IT) Degree Examination,
November/December 2019**

(CBCS – Freshers and Repeaters)

Information Technology

**Paper BVIT 104 – COMPUTER PROGRAMMING AND PROBLEM
SOLVING USING C**

Time : 3 Hours]

[Max. Marks : 70

Instructions to Candidates : Answer all Sections.

SECTION – A

- I. Answer any **TEN** questions. Each question carries **2** marks : **(10 × 2 = 20)**
1. What is algorithm?
 2. What is software?
 3. Why 'C' is called middle level language?
 4. What are C tokens?
 5. Write the syntax of conditional operators? With example.
 6. What is typedef? Give example.
 7. Difference between strcmp () and strcmpi ().
 8. What is function prototype? Why it is necessary?
 9. How to declare and initialize two dimensional arrays?
 10. What is pointer? Write its features.
 11. What is File pointer?
 12. What are command line arguments?

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SECTION - B

- II. Answer any **FIVE** questions. Each question carries **10** marks : (5 × 10 = 50)
13. (a) Explain the structure of C program. (5)
(b) Write an algorithm and flowchart to check whether a given number is odd or even. (5)
14. (a) Explain formatted Input-Output functions in C. (5)
(b) Explain logical operators in C with examples. (5)
15. Write a Menu-driven C program using switch-case to perform. (10)
(a) Sum of digits of a number
(b) Factorial of a number.
16. (a) Explain the working of if, and if-else statements. (5)
(b) Explain any five mathematical library functions with an example. (5)
17. (a) Write a C program to find transpose of given matrix. (5)
(b) Explain storage classes of C. (5)
18. Explain user-defined functions with example. (10)
19. (a) Write short note on structure. (5)
(b) Explain dynamic memory allocation functions with examples. (5)
20. (a) Explain File Access modes in C. (5)
(b) What are nested macros? Explain with examples. (5)
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