



I Semester B.C.A. Degree Examination, February/March 2024
(NEP Scheme) (Freshers and Repeaters)
COMPUTER APPLICATIONS
Programming in C

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer all the Sections.

SECTION – A

- I. Answer **any six** questions. **Each** question carries **two** marks. (6×2=12)
- 1) Write any two merits of 'C' programming language.
 - 2) Mention any five 'C' keywords.
 - 3) Differentiate between getch() and getchar().
 - 4) What are constants ? Give example.
 - 5) Write the general syntax of conditional operator.
 - 6) Differentiate between Break and Continue statement.
 - 7) What is the use of typedef keyword ?
 - 8) Mention the types of arrays.
 - 9) How to access addresses and value of variable using pointers ?

SECTION – B

- II. Answer **any four** questions. **Each** question carries **six** marks. (4×6=24)
- 10) What are the rules to be followed while constructing a variable ? Give one example for each rule.
 - 11) Explain for loop with an example.
 - 12) What are the advantages and disadvantages of arrays ?
 - 13) Explain any 4 character handling function with an example.
 - 14) Differentiate between structure and union. Give an example.
 - 15) What are the advantages and disadvantages of pointers ?

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SECTION – C

- III. Answer **any three** questions. **Each** question carries **eight** marks. (3×8=24)
- 16) a) Explain the structure of C program with example. 6
b) Give the memory size (in terms of bytes) of data type in C. 2
- 17) a) Explain nested if with an example. 4
b) Write program to find sum of first 'N' natural number. 4
- 18) a) Explain two dimensional arrays. 3
b) Write a 'C' program to read, display and to find the trace of a square matrix. 5
- 19) a) Explain the different operations on strings. 3
b) Write a 'C' program to find the quadratic equation. 5
- 20) Discuss the categories of user-defined functions. 8
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