DCCA – 102

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**