

I Semester B.C.A./B.C.A. (DS) Degree Examination, January 2025
(SEP) (Freshers)
COMPUTER APPLICATIONS
Programming in C

Time : 3 Hours

Max. Marks : 80

Instruction : Answer *all* the Sections.

SECTION – A

I. Answer **any 10** questions. **Each** question carries **2** marks. **(10×2=20)**

- 1) What are keywords ? Give an example.
- 2) What is constant ? Give an example.
- 3) Write the usage of gets() function.
- 4) Write the usage of continue statement in C.
- 5) What are if statements ?
- 6) What are nested functions ?
- 7) What is an array ? Mention its types.
- 8) What is a string ? Give an example.
- 9) Define union.
- 10) Write any two advantages of pointers.
- 11) What is a file ?
- 12) What are pre-processor directives ?



SECTION – B

II. Answer **any 6** questions. **Each** question carries **5** marks.

(6×5=30)

- 13) What is type conversion ? Explain its types with example.
- 14) Explain formatted input and output statement in C.
- 15) What is looping ? Explain while loop with syntax and example.
- 16) Write a program to check a number for prime by defining isprime() function.
- 17) Explain two dimensional arrays with an example.
- 18) Explain any five string handling functions with example.
- 19) What is call by reference ? Explain with example.
- 20) What are command line arguments ? Explain with example.

SECTION – C

III. Answer **any 3** questions. **Each** question carries **10** marks.

(3×10=30)

- 21) a) Explain relational operators with an example. 5
 - b) Write a note on data types in C. 5
 - 22) a) Explain switch statement with syntax and example. 5
 - b) What is recursive function ? Explain with example. 5
 - 23) Write a C program to perform addition and subtraction of matrices. 10
 - 24) a) Explain any two memory allocation functions. 5
 - b) Explain with example reading and writing data to text file. 5
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