



65121

I Semester B.C.A. Degree Examination, April/May 2023  
(CBCS Scheme – Repeaters) (2018 – 19 Onwards)  
**COMPUTER APPLICATION**  
**BCA-103T : Problem Solving Techniques Using C**

Time : 3 Hours

Max. Marks : 70

**Instruction : Answer all the Sections.**

SECTION – A

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

- 1) Why C is called a middle level language ?
- 2) What is algorithm ?
- 3) What are language translators ?
- 4) What is the purpose of getchar () and putchar() function ?
- 5) What is nested loop ?
- 6) What is the difference between if and switch statement ?
- 7) What is static variables ? Explain it.
- 8) Define a structure with an example.
- 9) What is enumerated data types ? Give example.
- 10) What is a pointer ?
- 11) Mention different file opening modes.
- 12) What is command line arguments ?

SECTION – B

II. Answer **any 5** questions, **each** question carries **10** marks. **(5×10=50)**

- 13) a) Write a note on classification of softwares.  
b) Explain the structure of a C program with example. **(5+5)**
- 14) a) What is an operator ? Explain the relation and logical operators in C.  
b) What is type conversion ? Explain its type with an example. **(5+5)**

P.T.O.





- 15) a) Explain formatted input function in C. (5+5)  
 b) Write a C program to find largest of two numbers. (5+5)
- 16) a) Explain any two looping statements with an example. (5+5)  
 b) Explain call by value and call by reference with an example. (5+5)
- 17) a) Explain multi-dimensional array with example. (5+5)  
 b) Explain any five built-in string handling functions. (5+5)
- 18) a) Write a note on storage Classes. (5+5)  
 b) Difference between structure and union. (5+5)
- 19) a) Explain how pointer arithmetic can be performed. (5+5)  
 b) Write a note on memory allocation functions. (5+5)
- 20) a) Explain any two macro substitution directives with an example. (5+5)  
 b) Explain creating and implementing user defined header file. (5+5)



SECTION - B

(5x10=50)

(5+5)

(5+5)

P.T.O.