

# **SECOND SEMESTER EXAMINATION 2021-22**

**Class - B.C.A.**

**Subject - Programming Methodology &  
C Programming**

Time : 2.30 Hrs.

Max. Marks : 80

Total No. of Printed Page : 05

Mini. Marks : 28

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**Note:** Question paper is divided into three sections. Attempt question of all three section as per direction. Distribution of Marks is given in each section.

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## **Section - 'A'**

**Attempt two from each unit.**

**10x2=20**

### **Unit - I**

1. Define Token.
2. Compare = operator and == operator.
3. Write use of Puts ( ) and gets ( ).

### **Unit - II**

4. Write syntax for do while loop.
5. Define Local and Global variable.
6. What is Prototyping.

(2)

### **Unit - III**

7. Define Union.
8. Write how to decrease variable of structure.
9. Write use of strlen ( ) function.

### **Unit - IV**

10. Define pointer.
11. What do you mean by recursion.
12. State how to define a ARRAY of pointer.

### **Unit - V**

13. What is Dynamic Allocation ?
14. What is wide character function ?
15. Write use of fopen ( ) and f close ( ) function.

### **Section - 'B'**

**Attempt all questions.**

**Short Answer Question (Word limit 60 words)**

**5x6=30**

### **Unit - I**

16. Define and describe keyword and identifier.

OR

(3)

Write a program to explain conditional operator in C.

## **Unit - II**

17. Write a C program to explain if else ladder.

OR

Explain the use of scope rules in C programming.

## **Unit - III**

18. Write types of function used in C.

OR

Write a C program to check given string is palindrome as not using string library function.

## **Unit - IV**

19. Write a C programme to explain pointer on pointer.

OR

Write a C program to print fibonacci series using recursion.

(4)

## **Unit - V**

20. Demonstrate the use of Time and date function in file handling in C program.

OR

Write the importance of command line argument.

## **Section - 'C'**

**Attempt any two questions.**

**Long answer question (word limit 120 words.)**

**2x15=30**

## **Unit - I**

21. Define operator and explain different types of operator used in C with suitable C program.

## **Unit - II**

22. (a) Write a C program to print a table of given number.  
(b) Write a C program to Explain static variable in C.

## **Unit - III**

23. (a) Write a C program explain ARRAY of structure  
(b) Write a program to addition of two matrix.

(5)

### **Unit - IV**

24. (a) Write a C program to explain pointer on structure.  
(b) Using a C program to swaptwo Number using function.

### **Unit - V**

25. (a) Write a C program to explain input output operation on file.  
(b) Explain utility function used in file maintenance in C programming language.

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