

Reg. No.

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BASDPC 382

**Choice Based Credit System Sixth Semester B.A. Degree
Examination, September 2022
(2019 – 2020 Onwards)
DATA PROCESSING
Problem Solving with C**

Time : 3 Hours

Max. Marks : 80

Note : Answer **any ten** questions from Part – **A** and answer **one full** question from **each** Unit in Part – **B**.

PART – A

(10×2=20)

1. a) Write any two features of C program.
- b) What are Keywords ? Give an example.
- c) List the different forms of 'if' statements.
- d) Differentiate between string and character constants.
- e) Write the usage of isalpha() function with example.
- f) What is an Array ? How do we declare one dimensional array ?
- g) What is the use of goto statement in C ? Write its syntax.
- h) List the different methods to pass parameters to a function.
- i) What are static variables ? How do we declare it ?
- j) Write the general format used for declaring a structure.
- k) List any four file input/output functions.
- l) What is a file ? List the different modes of opening a file.

P.T.O.



PART – B

Unit – I

- 2. a) What are C Tokens ? Explain.
- b) Explain the structure of C program.
- c) Explain the formatted input statement with syntax and example. **(5+5+5)**

OR

- 3. a) Explain the following operators :
 - a) Arithmetic operators.
 - b) Logical operator.
- b) Explain the fundamental data types in C.
- c) What are identifiers ? Write the rules for naming the identifiers. **(5+5+5)**

Unit – II

- 4. a) Explain do ..while statement with syntax and example.
- b) With syntax and example, explain else if ladder.
- c) Write a program to find the maximum of three numbers. **(5+5+5)**

OR

- 5. a) Explain for statement with syntax and example.
- b) What do you mean by nesting of if statement ? Explain with syntax and example.
- c) Write a program to print first N Fibonacci numbers. **(5+5+5)**

Unit – III

- 6. a) Explain any two mathematical functions with syntax and example.
- b) Explain with example, the actual and formal parameters.
- c) What is recursion ? Explain with example. **(5+5+5)**

OR



- 7. a) Explain the general form of defining user defined function.
- b) Explain the following string functions with example :
 - i) strlen()
 - ii) strcpy()
 - iii) strcat()
 - iv) strcmp()
 - v) strlwr().
- c) Write a recursive function to find the factorial of a number. **(5+5+5)**

Unit – IV

- 8. a) What is structure ? How do you define and access structure explain with Syntax and example.
- b) What is pointer ? How do you declare, initialize and access a pointer variable ? Give example.
- c) Explain the following :
 - a) Macro Substitution
 - b) File Inclusion. **(5+5+5)**

OR

- 9. a) Differentiate between structure and union.
- b) Explain fscanf and fprintf functions with example.
- c) Write a program to create a text file and display its content. **(5+5+5)**
