# 21BSC1C1CSL(46124)

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## B.Sc. I Semester Degree Examination, April/May - 2024 COMPUTER SCIENCE

### Computer Fundamentals and Programming in 'C'

### (NEP)

Time : 2 Hours

Maximum Marks: 60

*Note : Answer* **All** *the questions.* 

### **SECTION - A**

1. Answer the following sub-questions. Each sub-question carries one mark. 10x1=10

- (a) Name the two machines invented by Charles Babbage.
- (b) Expand RAM and IC.
- (c) List down any two tokens available in 'C'.
- (d) From which Programming Language the name 'C' was derived ?
- (e) What do you understand by the term Binary Operator? Explain with example.
- (f) Which statement is also called as entry control loop in 'C' Programming?
- (g) Write down any 2 unconditional control statements in 'C'.
- (h) Name any 2 advantages of using Arrays in 'C'.
- (i) Define Recursion in 'C'.
- (j) Why do we need a user defined functions in 'C'?

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#### **SECTION - B**

Answer **any four** of the following questions. Each question carries **five** marks. **4x5=20** 

- 2. Explain any 5 important characteristics of Computer.
- 3. What are the rules to be kept in mind while naming the identifier?
- 4. Discuss Logical and Bitwise Operators in 'C'.
- 5. How do you define and declare a pointer variable in 'C' ?
- 6. With syntax and example explain the declaration of a structure in 'C'.
- 7. Write a 'C' Program to find the largest of a 3 No's using Nested if else statement.

#### SECTION - C

Answer any three of the following questions. Each question carries ten marks.

3x10=30

- **8.** Tabulate the 5 generations of Computer with Period, Component used, Features and examples.
- 9. Explain the basic structure of 'C' Program with suitable example.
- 10. Differentiate between while and do while statements in 'C'.
- 11. Write a note on the following functions with suitable examples:(a) Call by Value(b) Call by Reference
- **12.** Write a 'C' Program to find the multiplication of 2 matrices. Also check it's multiplication possibility.

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