

- Q.27 What is the difference between the local variable and global variable in C.
- Q.28 Write a program to print the first 10 Fibonacci numbers.
- Q.29 Difference between `getc()`, `getchar()`, `getch()` and `getche()`.
- Q.30 What is the difference between `puts()` and `printf()`?
- Q.31 What are the key features in the C programming language?
- Q.32 Write a program to check if a given number is prime or Not.
- Q.33 What is
1. Array in C?
  2. Pointer in C?
- Q.34 What is the syntax of switch statement?
- Q.35 What are the different errors that can be occurred in C program?

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the use of function `toupper()` with an example code?
- Q.37 What are loop construct? Discuss various loop constructs used in C?
- Q.38 Write a C program to find the subtraction of two 3x3 matrix?

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121543/031043

**4th Sem / Eltx, EI, IC, Med. Eltx, GE, Power Eltx**  
**Subject:- Computer Programming and Applications**

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Two basic types of memory in a computer are \_\_\_\_\_
- a) Primary and major
  - b) Primary and secondary
  - c) Minor and Major
  - d) Main and Virtual
- Q.2 Any electronic holding place where data can be stored and retrieved later whenever required is \_\_\_\_\_
- a) Memory
  - b) drive
  - c) disk
  - d) circuit
- Q.3 A Database Management System is a type of \_\_\_\_\_ software.
- a) It is a type of system software
  - b) It is a kind of application software
  - c) It is a kind of general software
  - d) Both A and C
- Q.4 How many spaces a Tab has in C.
- a) 8
  - b) 9
  - c) 7
  - d) 6

- Q.5 Which of the following cannot be a variable name in C?
- a) volatile                      b) true  
c) friend                         d) export
- Q.6 What is the following is invalid header file in C?
- a) Math.h                        b) Mathio.h  
c) String.h                      d) Ctype.h
- Q.7 What symbol ends a statement in C program?
- a) ; (Semicolon)                b) . (full stop)  
c) : (colon)                      d) } (Curly braces)
- Q.8 Which operator if used to compare two values?
- a) Logical operator              b) Relational operator  
c) Assignment operator        d) None of these
- Q.9 Any C program
- a) Must contain at least one function  
b) Need not contain any function  
c) Needs input data  
d) None of the above
- Q.10 What is the maximum number of dimensions of an array?
- a) 4  
b) 5  
c) 2  
d) Theoretically no limit. The only practical limits are memory size and compilers

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is the size of (char) in a 32-bit C compilers?
- Q.12 DCS is a \_\_\_\_\_
- Q.13 Scanf () is a predefined function in \_\_\_\_\_ header file.
- Q.14 How an array initialized in C language?
- Q.15 A pointer is \_\_\_\_\_
- Q.16 What is an identifier?
- Q.17 What is recursion?
- Q.18 Library function getch () belongs to which header file?
- Q.19 What is the break statement in C?
- Q.20 What is a Union?

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Distinguish between the source code and object code in C.
- Q.22 What is a macro in C?
- Q.23 Difference between while and do-while loop.
- Q.24 Name some of the commonly used built-in functions.
- Q.25 What is the difference between struct and union?
- Q.26 Write a program to find the factorial of a given number.