

- Q.27 What are header files ? Explain various commonly used header files in C .
- Q.28 Describe if else statement .
- Q.29 Define loop. Explain do-while loop with syntax .
- Q.30 List various features of Electronic workbench and ORCAD.
- Q.31 Discuss various characteristics of C language.
- Q.32 Define Flowchart. Explain various symbols used in flowchart.
- Q.33 What is variable ? How it is declared ? Explain with example .
- Q.34 What do you mean by string ? Describe various string manipulation functions .
- Q.35 Write a short note on formatted Input function.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Write short note on following :
- PDLC
 - Preprocessor Directives
- Q.37 What is operator ? Explain various operators used in C language .
- Q.38 Explain general structure of C program with suitable example.

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3rd Sem / Mechtronics

Subject:- Computer Programming & Applications

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 What does this declaration mean ? `int x : 4`
- X is a four - digit integer .
 - X cannot be greater than a four-digit integer .
 - X is a four-bit integer .
 - None of these
- Q.2 Why is a macro used in place of a function ?
- It reduces execution time
 - It reduces code size .
 - It increases execution time
 - It increases code size.
- Q.3 In the C language , the constant is defined _____.
- Before main
 - after main
 - Anywhere , but starting on a new line .
 - None of the these .

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- Q.4 Which one of the following is a loop construct that will always be executed once?
- For
 - While
 - Switch
 - Do while
- Q.5 Each instance of a class has a different set of
- Class interfaces
 - Methods
 - Return types
 - Attribute values
- Q.6 What does this statement mean ? $x = y + 1$;
- $x = x - y + 1$
 - $x = -x - y - 1$
 - $x = x + y - 1$
 - $x = x - y - 1$
- Q.7 The `#include <stdio.h>` is a
- Inclusion directive
 - Preprocessor Directive
 - Processor directive
 - None of these
- Q.8 What is the keyword used to declare a C file pointer ?
- file
 - FILE
 - FILEFP
 - filefp
- Q.9 What is the maximum length of a C string ?
- 32
 - 16
 - 8
 - 64
- Q.10 C is a _____ type of programming language.
- Object oriented
 - Procedural
 - Bit level language
 - Functional

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SECTION-B

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

- Q.11 Define term PDLC.
- Q.12 What is compiler ?
- Q.13 What do you mean by Debugging ?
- Q.14 What is the use of address operator ?
- Q.15 Define `getchar()` and `putchar()`
- Q.16 What is function ?
- Q.17 What are multidimensional arrays?
- Q.18 Write two uses of pointer .
- Q.19 Define Union .
- Q.20 What do you mean by error handling .

SECTION-C

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

- Q.21 Define structure. How it is declared ? Give example
- Q.22 Write a short note on One dimensional Array.
- Q.23 What is pointer ? How it is declared and initialized ? Explain with suitable examples
- Q.24 What is the difference between Built-in and user defined Function ?
- Q.25 Explain the concept of recursion with example.
- Q.26 Differentiate between continue and break statement .

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