

- 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 .

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

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.