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180836/170836/082435

**3rd Sem / Computer Engineering/ Mechtronics  
Subject:- programming in C**

Time : 3Hrs. M.M. : 100

**SECTION-A**

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

Q.1 C is a..... language.

- a) Middle level      b) Low level
- c) High level      d) Machine level

Q.2 How many keywords are there in C language ?

- a) 31      b) 42
- c) 32      d) 33

Q.3 The operator += is an example of .....operator

- a) Increment      b) arithmetic
- c) relational      d) assignment

Q.4 Character constant should be enclosed between .....

- a) Single quotes      b) Double quotes
- c) Both A and B      d) none of these

Q.5 Which function is used to find the length of a string ?  
a) Strncpy      b) Strlen  
c) Strrev      d) Strnstr

Q.6 Name of & operator is.....  
a) address      b) indirection  
c) dereferencing      d) arithmetic

Q.7 %d is used to represent which data type?  
a) Char      b) float  
c) double      d) int

Q.8 Which keyword is used for declaration of structures?  
a) Structure      b) Struct  
c) Stru      d) none of these

Q.9 Which header file includes printf() function?  
a) Conio.h      b) stdio.h  
c) string.h      d) output.h

Q.10 In C, size of an int variable is .....bytes.  
a) 2      b) 4  
c) 8      d) 6

**SECTION-B**

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

Q.11 Who developed C?

Q.12 Define flowchart?

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- Q.13 Name any two primary data types used in C language
- Q.14 Write the syntax of for loop.
- Q.15 Define pointer.
- Q.16 What is the difference between variable and constant?
- Q.17 Write any two logical operators
- Q.18 Name any two string related functions.
- Q.19 Define function
- Q.20 Define keyword with example

### SECTION-C

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

- Q.21 Explain the different symbols used in flowchart.
- Q.22 Write an algorithm to find the area of circle.
- Q.23 Define and explain any four operators used in C language?
- Q.24 What are the different formatted input and output functions ? Explain in brief.
- Q.25 Explain for loop with example.
- Q.26 Write a C program to swap two numbers.
- Q.27 Explain the use of switch statement with example.
- Q.28 What is a pointer ? Write the syntax to declare and initialize a pointer variable.

- Q.29 Differentiate between structure and union.
- Q.30 Define array .Explain 1-D array with example
- Q.31 What is the difference between call by value and call by reference?
- Q.32 What is a function ? What are the two principle components of function definition?
- Q.33 Explain any two string manipulation functions.
- Q.34 What are the different data types used in C? Explain in brief.
- Q.35 Distinguish between Break and continue statement.

### SECTION-D

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

- Q.36 What are the different steps involved in development of a program ? Explain each step in detail.
- Q.37 Write a program to find the factorial a given number.
- Q.38 Differentiate between while loop and do while loop with the help of suitable example.