



(d) You cannot reassign a value to a constant variable.

(viii) What will be the value of y after these three lines?

int x = 11, y;

float z = 5.5;

y = z/y;

(a) 0

(b) 1

(c) 2

(d) 5.

(ix) Which of the following statement is true according to C syntax rule?

(a) All C instruction must be written in Upper case character.

(b) C is not a case sensitive language.

(c) All C statement must end with a semicolon.

(d) All of the above.

(x) Which of the following is not a logical operator?

(a) &

(b) &&

(c) ||

(d) !.

### **Group - B**

2. (a) Draw a flowchart to check a number is odd or even. Convert from one number system to the other

(b) (i)  $(29)_{10} = (?)_2$

(ii)  $(54236)_8 = (?)_{16}$

(c) Simplify the expression:

$AB + A(B + C) + B(B + C)$

$$5 + (2 + 2) + 3 = 12$$

3. (a) What will be 32-bit full precision floating representation for 24.75?

(b) State two differences between a compiler and an interpreter.

(c) What is a universal logic gate?

$$8 + 2 + 2 = 12$$

### **Group - C**

4. (a) Write a C program to identify the max number using ternary operator.

(b) What is the difference between explicit and implicit type cast? Give example.

$$8 + 4 = 12$$

5. (a) What are the different data types of C explain briefly with examples?

(b) Write a C program to print the average of 3 numbers. Input taken from user.

$$4 + 8 = 12$$

**Group - D**

6. (a) Write a C program to check if the number is palindrome or not.  
(b) Briefly explain the different types storage classes. **8 + 4 = 12**
7. (a) Write difference between function declaration and function definition with example?  
(b) Give an example of conversion of if-else to switch case.  
(c) Write a C program to print the factorial of a number. **(1.5 + 1.5) + 5 + 4 = 12**

**Group - E**

8. (a) Write a C program to print the length of a string.  
(b) Write a C program to print the addition of two matrix. Before performing the matrix addition.  
(c) What is the difference in opening a file in r+ and in w+ mode? **4 + 5 + 3 = 12**
9. (a) Write a program that takes two strings as command line arguments and compares them to see whether they are same or not. Do not use any function from the string library.  
(b) Write a program taking exactly two inputs from the command line to copy contents of one file and copy it to another file. The command line arguments are the source and the destination file names, respectively. **6 + 6 = 12**

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