

9. When do you need to use type-conversions?
 - a. The value to be stored is beyond the max limit.
 - b. The value to be stored is in a form not supported by that data type.
 - c. To reduce the memory in use, relevant to the value.
 - d. All of the mentioned.
10. What is the type of the following assignment expression if x is of type float and y is of type int? $y=x+y;$
 - a. Int
 - b. Float
 - c. There is no type for an assignment expression
 - d. Double
11. Which of the following is an invalid assignment operator?
 - a. $a\% = 10;$
 - b. $a / = 10;$
 - c. $) a | = 10;$
 - d. None of the mentioned
12. Which of the following is the correct order of evaluation for the given expression? $a = w \% x / y * z;$
 - a. $\% / * =$
 - b. $/ * \% =$
 - c. $= \% * /$
 - d. $* \% / =$
13. Which datatype can accept switch statement?
 - a. Int
 - b. Char
 - c. Long
 - d. All of these
14. Which for loop has range of similar indexes of 'i' used in for (i = 0; i < n; i++)?
 - a. for (i = n; i > 0; i-)
 - b. for (i = n; i >= 0; i-)
 - c. for (i = n-1; i > 0; i-)
 - d. for (i = n-1; i > -1; i-)
15. Which loop is most suitable to first perform the operation and then test the condition?
 - a. For loop
 - b. While loop
 - c. Do while loop
 - d. None of these
16. Which of the following is a correct format for declaration of function?
 - a. return-type function-name(argument type);
 - b. return-type function-name(argument type){}
 - c. return-type (argument type)function-name;
 - d. All of the mentioned
17. What is the return-type of the function sqrt()?
 - a. Int
 - b. Float
 - c. Double
 - d. Depends on the data type of the parameter
18. Global variables are.....
 - a. Internal
 - b. External
 - c. Both Internal and External
 - d. None of the mentioned
19. Which operator connects the structure name to its member name?
 - a. _
 - b. <-
 - c. .(dot)
 - d. Both <- and .(dot)
20. Which of the following is not possible in C?
 - a. Array of function pointer
 - b. Returning a function pointer
 - c. Comparison of function pointer
 - d. None of the mentioned

(PART-B : Descriptive)

Time : 2 hrs. 40 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. What is an expression? Write about the different categories of operator in C. 10
2. Name and describe the four basic data types in C. Describe the rules to declare a variable in C. Differentiate constant and variable in C. 4+4+2=10
3. Write a program to display addition of two matrices. 10
4. a. Draw flow chart to display multiple of 19 between 100 & 200. 5+5=10
b. Write a program to display swap of two real nos.
5. What is looping in C? Describe different types of looping in C. Differentiate exit and entry controlled loop. 2+5+3=10
6. What is argument? Write a C program to calculate value of nC_r using function. 2+8=10
7. What is a structure? How does a structure differ from array? Describe array of structures with an example. 2+4+4=10
8. What is pre-processor? Write about the different types of pre-processor directive. Describe dynamic memory management technique in C. 2+5+3=10

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