



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  $\text{for}(i = 0; i < n; i++)$ ?
  - a.  $\text{for}(i = n; i > 0; i-)$
  - b.  $\text{for}(i = n; i >= 0; i-)$
  - c.  $\text{for}(i = n-1; i > 0; i-)$
  - d.  $\text{for}(i = n-1; i > -1; i-)$
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.  $\text{return-type function-name(argument type);}$
  - b.  $\text{return-type function-name(argument type)\{\}}$
  - c.  $\text{return-type (argument type)function-name;}$
  - d. All of the mentioned
17. What is the return-type of the function  $\text{sqrt}()$ ?
  - 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

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**( 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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