

Multiple Choice Questions (1 mark)**Unit-1**

1. _____ is a step by step approach to solve any problem..
 a) Process
c) Algorithm
 b) Programming Language
 d) Compiler
2. The process of walking through a program's logic on paper before you actually write the program is called _____.
 a) desk checking
 c) pseudocoding
b) flowcharting
 d) testing
3. Which symbol is used to represent output in a flowchart?
 a) square
c) parallelogram
 b) circle
 d) triangle
4. _____ is a pictorial representation of an algorithm.
 a) Data Diagram
 c) Pie Chart
b) Flow Chat
 d) Program
5. What is the standard decision symbol for a flowchart?
 a) circle
c) diamond
 b) lozenge
 d) square
6. Mnemonic a memory trick is used in which of the following language?
 a) Machine Language
 c) High Level Language
b) Assembly Language
 d) None of above
7. The translator program used in assembly language is called _____.
 a) Compiler
c) Assembler
 b) Interpreter
 d) Translator
8. _____ is easily relocatable language.
 a) Machine Language
 c) High Level Language
b) Assembly Language
 d) Medium Level Language
9. Which of the following is called low level languages?
 a) Machine Language
c) Both of the above
 b) Assembly Language
 d) None of above
10. Which of the following is problem oriented language?
a) High level language
 c) Assembly language
 b) Machine language
 d) Low level language
11. A compiler is a translating program which
 a) Translates instruction of a high level language into machine language
 c) It is not involved in program's execution
 b) Translates entire source program into machine language program
d) All of above
12. Which of the following is machine independence program?
a) High level language
 c) Assembly language
 b) Machine language
 d) Low level language
13. Which is the limitation of high level language?
a) Lower efficiency
 c) Machine level coding
 b) Machine dependence
 d) None of above
14. High level language is also called _____.
 a) Problem Oriented Language
 c) Mathematically Oriented Language
b) Business Oriented Language
d) All of above
15. C language is _____.
a) High level language
 c) Assembly language
 b) Machine language
 d) Low level language

Unit-2

1. _____ is a valid variable name.
a) int b) float 3) **tot_sum** 4) 9Sum
2. In which section consists of Header files.
a) Main() 2) Definition 3) Documentation 4) **Link Section**
3. _____ is a invalid variable name.
a) INT b) pi c) **int marks** d) total_marks
4. What is the output of 9/2- (5%3)
a) **2** b) -2
c) 0 d) 3
5. The range of int data type is _____ bytes.
a) **2** b) 4
c) 8 d) 16
6. What is the value of I after the following execution?
I=1; ++I =+ 3;
a) 2 b) **5**
c) 1 d) 0
7. The value can be changed during program execution is known as _____.
a) **Variable** b) constant
c) Operator d) None of these
8. The combination of ? and : is known as _____ operator.
a) **Ternary** b) Arithmetic
c) dot d) Relational
9. The value can not be changed during program execution is known as _____.
a) Variable b) **constant**
c) Operator d) None of these
10. _____ format specifier used for floating data type.
a) %d b) **%f**
c) %c d) %e
11. Which of the following section is compulsory in C program?
a) **Main()** b) Definition
c) Documentation d) None of these
12. By default _____ digits in float type variable after decimal point.
a) 2 b) 4
c) 6 d) **8**
13. Which of the following backslash character constant is used for horizontal tab?
a) \n b) **\t**
c) \h d) \y
14. _____ format specifier used for integer data type.
a) **%d** b) %f
c) %c d) %e
15. The range of double data type is _____ bytes.
a) 2 b) 4
c) **8** d) 16
16. I=10;
j=++i;
i++;
then i=_____ and j=_____
a) 21, 22 b) 25, 21
c) 22, 32 d) **12, 11**

Unit-3

1. Do-while loop is also known as _____ loop.
 - a) Entry level
 - b) **Exit level**
 - c) a & b
 - d) None of these
2. _____ statement terminates the execution of loop.
 - a) Continue
 - b) **break**
 - c) switch
 - d) none of these
3. _____ statement skips the remaining statement of the loop and control transfer to the condition.
 - a) Break
 - b) **Continue**
 - c) if
 - d) switch
4. The Switch expression can be an _____ type.
 - a) **Integer**
 - b) float
 - c) double
 - d) none of these
5. The following is not true for switch statement.
 - a) break is optional in switch
 - b) default is optional in switch
 - c) **we can define same case label more than once**
 - d) we can define switch within another switch
6. _____ loop execute at least once.
 - a) while loop
 - b) **do...while**
 - c) if
 - d) for
7. While (1)


```
{
printf(" Hello");
}
```

 How many times execute above loop?
 - a) 1
 - b) 10
 - c) **infinite time**
 - d) finite time
8. Identified from the following after which statement; is required.
 - a) for
 - b) nested if
 - c) **continue**
 - d) none of these
9. _____ types of control structure available in C language.
 - a) 1
 - b) 2
 - c) **3**
 - d) 4
10. For declaring one- dimensional array _____ subscript is use.
 - a) **One**
 - b) Two
 - c) Three
 - d) All of above
11. Individual value in array is called _____.
 - a) **Element**
 - b) Number
 - c) Index
 - d) Element and number
12. For declaring two- dimensional array _____ subscript is use
 - a) One
 - b) **Two**
 - c) Three
 - d) All above
13. In Array subscript can begin with number _____.
 - a) **Zero**
 - b) One
 - c) Three
 - d) None of these
14. When we declare array _____ data type is use.
 - a) int
 - b) char
 - c) float
 - d) **All of above**
15. For Initialization of array list of value separated by _____.
 - a) Question marks (?)
 - b) **Commas (,)**
 - c) Exclamatory marks (!)
 - d) None of these

16. An array can be initialize either at compile time or at _____
 a) **Run Time** b) Allocation Time
 c) Released Time d) Not of above
17. In two dimensional array the first subscript is define _____ size.
 a) **Row** b) column
 c) Vector d) All of above
18. In two dimensional array the second subscript is define _____ size
 a) Row b) **column**
 c) Vector d) All of above
19. isdigit() function is available in _____
 a) <stirng.h> b) **<ctype.h>**
 c) <conio.h> d) <math.h>
20. abs () function is available in _____
 a) <stirng.h> b) <stdlib.h>
 c) <conio.h> d) **<math.h>**
21. _____ is return the absolute value.
 a) **abs()** b) isdigit()
 c) isupper() d) islower()
22. isalpha(argument) function is return _____ where the argument is not alphabetic
 a) **zero** b) one
 c) three d) none of these
23. isupper() function is available in _____
 a) <stirng.h> b) **<ctype.h>**
 c) <conio.h> d) <math.h>

Unit-4

1. '\0' is _____
 a) **Null Character** b) Character value
 c) Escape sequence d) Symbolic Constant
2. A group of character is known as _____
 a) **String** b) Array
 c) Function d) All of above
3. When we declare string _____ data type is use.
 a) int b) **char**
 c) float d) All of above
4. A group of character in string defines in _____ quotation marks.
 a) Single b) **Double**
 c) Three d) Multi
5. _____ is use to print the double quote in the string
 a) **Back slash** b) Forward slash
 c) Tab d) None of these.
6. _____ operation is performed on string
 a) Reading b) Copying
 c) Writing d) **All of above.**
7. _____ function is use to reading the string
 a) **scanf()** b) printf()
 c) strrev() d) strlen()
8. _____ function is use to writing the string.
 a) scanf() b) **printf()**
 c) strrev() d) strlen()

25. Command line argument : `main(int argc ,char *argv[])` Consider the above example the _____ variable is count the number of argument in command line.
 a) **argc** b) argv
 c) int d) main()
26. Every c program begins its execution with _____
 a) { b) clrscr ()
 c) **main ()** d) #include<stdio.h>
27. The following are the user defined function _____.
 a) **main ()** b) printf ()
 c) scanf () d) sqrt ()
28. printf () and scanf () is _____ type of function.
 a) **Library** b) User-define
 c) main d) None of above
29. C function can be classified in _____ catagory.
 a) one b) **two**
 c) three d) nine
30. All function by default return _____
 a) **integer** b) float
 c) void d) string
31. Function header consists of _____ parts.
 a) one b) two
 c) **three** d) none of above
32. A function definition is also known as _____.
 a) **function implementation** b) function call
 c) function type d) none of above.
33. The parameter is also known as _____
 a) **argument** b) variable
 c) data type d) array
34. A parameter list in function can be separated by _____
 a) Question marks (?) b) **Commas (,)**
 c) Exclamatory marks (!) d) None of these
35. A function can be surrounded by _____
 a) **parentheses** b) square brackets
 c) queerly brackets d) none of these
36. The following are wrong declaration in function definition. _____
 a) `int sum(int a , float b)` b) `float sum(int a ,float b)`
 c) **`int sum(int a,b)`** d) `float sum(float a, float aa)`
37. A _____ statement that returns the value evaluated by the function.
 a) goto b) break
 c) **return** d) none of these
38. When the function return any value at that time it return _____ value per function call.
 a) **one** b) two
 c) three d) multiple
39. When the function is called _____ argument is passed.
 a) **actual** b) formal
 c) actual & formal d) none of these
40. A function declaration is also known as _____
 a) function implementation b) function call
 c) function type d) **function prototype.**

Unit-3

1. Explain break and continue statement in C.
2. Explain do-while statement with example.
3. Explain break statement with example.
4. Write difference between break and continue.
5. Write difference between exit and entry controlled loop.
6. Explain structure programming in brief.
7. What is array? List out the type of array use in c programming.
8. What is an array? Write syntax to declare 1D array in c. Also give one example.
9. Write the syntax of compile time initialization of 1D array in c. Also give example.
10. Write the syntax of run time initialization of 1D array in c. Also give example.
11. What is an array? Write syntax to declare 2D array in c. Also give one example.
12. Write the syntax of compile time initialization of 2D array in c. Also give example.
13. Write the syntax of run time initialization of 2D array in c. Also give example.
14. List out any four mathematical functions.
15. Explain the isalpha () function.
16. Explain the isdigit () function.
17. Explain the islower () function.
18. Explain the isupper () function.
19. Explain the pow () function.
20. Explain the sqrt () function.
21. Explain the abs () function.
22. Explain the clrscr () function.
23. Explain the getch () function.

Unit-4

1. What is string? List out the operation perform on the string.
2. What is string? Write the syntax of declaring string in c. Also give example.
3. What is string? How we can initialize the string variable. Give one example.
4. Explain gets () function with syntax and example.
5. Explain puts () function with syntax and example.
6. Explain strlen () function with syntax and example.
7. Explain strev () function with syntax and example.
8. Explain strcmp () function with syntax and example.
9. Explain strcpy () function with syntax and example.
10. Explain strcat () function with syntax and example.
11. Define function? List out type of function use in c.
12. What is user – define function? Give one example of user define function.
13. What is library function? Give one example of library function.
14. Write difference between user define function and library function.
15. Write the advantage of function.
16. Define function? List out typed of element of user define function.
17. Write the syntax of the following.
 - 1) Function definition.
 - 2) Function call
 - 3) Function declaration.
18. Define function? List out the category of function.

Long Question (>= 3 marks)**Unit-1**

1. What is an algorithm? Write advantages and disadvantages of an algorithm. (4 marks)
2. Write an algorithm/flowchart for following. (each of 4 marks)
 - 1) To find sum of odd value and even value digits of a given number.
 - 2) To find out minimum from N numbers.
 - 3) To check whether inputted number is prime number or not.
 - 4) To check whether inputted number is palindrome number or not.
 - 5) To check whether inputted number is Armstrong number or not.
 - 6) To print N terms of Fibonacci series.
 - 7) $\text{Sum}=1^2 + 2^2 + 3^2 + 4^2 + 5^2 + 6^2 + 7^2 + \dots$ and so on.
3. What is Flowchart? Explain Rules to draw flowchart. Also explain symbols used to draw flowchart. (8 marks)
4. What is flow chart? Write advantages and disadvantages of flowchart. (4 marks)
5. What is flow chart? Explain symbols used to draw a flow chart.
6. What is Translator? Explain compiler, Interpreter and Assembler. (8 Marks)
7. Explain High Level Language and Assembly Language in Detail. (8 Marks)
8. Write a note on Language Generation. (4 Marks)
9. Explain any one language from following in detail. (Each contain 4 Marks)
 - 1) Machine Level or Low Level Language (1GL)
 - 2) Assembly Language (2GL)
 - 3) High Level Language (3GL)
10. Write difference between Interpreter and Compiler.

Unit-2

1. Explain Basic Structure of C program.
2. What is operator? Explain different operators with example.
3. Explain Arithmetic operator & Relational operator with example.
4. Explain Relational and Pre and post increment operator with example.
5. What is Variable? How to declare and initialization of variable with example.
6. Explain basic data types used in C language.
7. What is the output for following?
 - a) $4/3 \% 9-3$ b) $(-7/3)+4\%3/7$ c) $8/4.0+(3.0/2)-1$ d) $10/5-2*(3\%6)$
 - e) $((3/2)*6/2-1)$ f) $7/2+(4.0*3)\%2$
8. Explain if..else & nested if statement with syntax and example.
9. Explain switch statement with syntax and example.

Unit-3

1. Explain looping statement with syntax and example.
2. Explain while and for loop with syntax and example.
3. Write difference between do-while, while and for loop.
4. Define array? Also explain declaration of 1D and 2D array with syntax and example.
5. Explain initialization of 1D array with syntax and example.
6. Explain initialization of 2D array with syntax and example
7. Define 1D array? Explain the declaration and initialization of 1D array with syntax and example.
8. Define 2D array? Explain the declaration and initialization of 2D array with syntax and example.

