CONTINOUS ASSESSMENT IN C LANGUAGE

CLASS: B1A & B1B   Academic year: 2021/2022   SPECIALITY: Software Engineering   Duration: 01h

MCQ (Correct answer: 0.75; Wrong answer: -0.25)

1. In C language how do we declare a constant?
   a) int constant var =10;   b) int const var = 10;
   c) const int var = 10;   d) Both B and C

2. If y is an array of real, then the value of &y[i] is same as
   a) &y[i-1] + sizeof (float)   b) &y + sizeof (float) * i
   c) &y + sizeof (float) * i   d) &y + sizeof (float) & i

3. What is the output of this code ?
   ```
   int main(){
   enum {LEMON = 13, ORANGE, TOMATO = 11, MANGO};
   printf("MANGO = %d\n", MANGO);}
   ```
   a) MANGO=11   b) MANGO=13
   c) MANGO=24   d) MANGO=2

4. Which is the most prefered to read a string in c ?
   a) gets   b) scanf   c) strcpy   d) fgets

5. Which one is not a reserved keyword for C ?
   a) auto   b) register   c) main   d) volatile

6. How many times is B1A&B1B printed ?
   ```
   int main(){
   int a = 0;
   while(a++);
   {
     printf("B1A&B1B ");
   }
   return 0;}
   ```
   a)0 time   b)1 time   c)Compilation error   d)infinite times

7. What will be the output of the following c code ?
   ```
   #include <stdio.h>
   void main()
   {
   int a = 5, b = -7, c = 0, d;
     d = ++a && ++b || ++c;
     printf("\n%d%d%d%d", a, b, c, d); }
   ```
   a) 6 -6 0 1   b) 6 -6 1 1   c) 6 -5 0 1   d) 5 -7 0 -2

8. What is the output of the following program
   ```
   #include<stdio.h>
   main()
   {
     int a[] = {1,2}, *p = a;

     printf("%d", p[1]);
   }
   ```
   a)Runtime error   b)Syntax error   c)1   d)2

9. When can the void pointer be dereferenced?
   a) when it cast to another type of object
   b) when it doesn't point to any value
   c) using delete keyword   d) when using shift keyword

10. Predict the output of the program below
    ```
    #include<stdio.h>
    int main() {
      int n;
      for(n = 7; n!=0; n--)
        printf("n = %d", n--);
      getchar();
      return 0; }
    ```
    a) infinite loop   b) 7   c) 0   d) n

11. _____ function is used to allocate space for array in memory
    a) alloc()   b) malloc()   c) calloc()   d) realloc()

12. Size of the array does not need to be specified when__
    a) It is a formal parameter   b) It is a declaratrion
    c) Initialization is a part of definition   d) None

13. An array elements are always stored in _____ memory locations
    a) Fixed   b) Sequential   c) Random   d) None

14. Which is considered a real number by default?
    a) long float   b) long   c) float   d) double

15. For an integer that uses 2 bytes for storage, the maximum size is
    a) 2^{16}-1   b) 2^{15}-1   c) 2^{15} d) 2^{16}

16. What is the output of the program below ?
    ```
    int main()
    {
    int i,j,count;
    count=0;
    for(i=0; i<5; i++);
    {
        for(j=0;j<5;j++);
        {
          count++;
        }
    }
    printf("%d",count);
    return 0;
    }
    ```
    a) 1   b) 0
    c) 25   d) 55

17. Choose the invalid predefined macro as per ANSI C
    a) __FILE__   b) __MACRO__
    c) __DATE__   d) __CPLUSPLUS__

18. Give the output of this code char mot[3]={'I','A','I'} ;
    for(int i=0 ;i<3;i++) cout<<mot[i] ;
    a)I A I   b)"IAI"   c)IAI   d)'IAI'

19. A void pointer cannot point to which of these?
    a) methods in c   b) class member in c
    c) methods & class member in c   d) none of the above

20. What is the meaning of a Token in C ?
    a) The smallest individual units of c program
    b) The basic element recognized by the compiler
    c) The largest individual units of program
    d) Both a and b

21. What will be the output of the following C++ code?
    // Add stdio.h and stdbool.h header files in the below
    //code
    int main()
    {
    bool arr[10] = { true, false };
    printf("%ld\n",sizeof(bool));
    return 0;
    }
    a) 1   b) 2   c) 5   d) 10

22. A ponter pointing to a variable that is not initialized is
    called ____
    a) Wild pointer   b) Empty pointer
    c) Null pointer   d) Void pointer

23. While redefining a virtual function in the derived class, if
    its prototype is changed then _____
    a) It will be overloaded by the compiler
    b) Its virtual nature will be lost
    c) All of the above
    d) Non of the above

24. What is printed by the following program

```
int main()
{
void foo(), f();
f();
}
void foo()
{
printf("2 ");
}
void f()
{
printf("1 ");
foo();
}
```
    a) Runtime error   b) 1 2   c) 2 1   d) Infine loop

25. Which number is displayed on screen when the
    following code is executed ?

```
#include<stdio.h>
int main()
{
char ch;
int i;
ch ='G' ;
i= ch-'A' ;
printf("%d",i) ;
return 0 ;
}
```
    a) 4
    b) 5
    c) 6
    d) 7

26. Find the output of the following program:

```
void mian() {
     int i= 01289 ;
     printf("%d",i);
}
```
    a) 1289   b)0 1289
    c) 9821   d) syntax error

27. What output does this program produce

```
int main()
{
int i,j;
for(i = 0,j=0;i<5;i++)
{
  printf("%d%d--",i,j);
}
return 0;
}
```
    a) 0--01--12--23--34--
    b) 00--10--20--30--40--
    c) Compilation Error
    d) 00--01--02--03--04--

Course Instructor: M. NDENGE