A Thinking Byte

C Programming Test

Duration : 30 Minutes.   **Full Marks : 100.**   **Date   :- 8ᵗʰ-MAY-2019**

All the questions carry '4' marks. Each correct answer will give you '3' marks and additional short justification of your answer will give you 1 mark and each wrong answer will give you '-1' mark.

WISH YOU ALL THE BEST.....

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Questions :-

1. Dennis was The Author of famous programming Book_____.
   a.   The C Programming and Techniques   b.   Thinking in C
   c.   The C Programming Language   d.   Learn C Step By Step
   e.   C Programming for Scientist

2. Many features of C were derived from an earlier language called_____.
   a. B   b. PASCAL   c. BASIC   d. FORTRAN   e. BCPL

3. Which Committee standardize C Programming Language?
   a. ANSI   b. W3C   c. TRIA   d. ISO

4. Who was Creator of B Language, which inspired Dennis Ritchie to create Strong Procedural Language called C?
   a. Ken Thompson   b. Thomas E. Kurtz   c. John W. Backus   d. Brian Kernighan
   e. James Gosling   f. None.

5. How many times below for loop will be executed?

```#include<stdio.h>```
 ```int main()```
 ```{```
     ```int i=0;```
     ```for(;;)```
     ```{```
         ```printf("%d",i);```
     ```}```
     ```return 0;```
 ```}```
	a. 0 time
	 b. 1 time
	 c. 10 times
	 d. Infinite times
	 e Compilation error
	 f. None of these

6. Find output of the following program?

```#include<stdio.h>```
 ```int main()```
 ```{```
     ```char str[]="Smaller";```
     ```int a=100;```
     ```printf(a>10?"Greater\n" : "%s",str);```
     ```return 0;```
 ```}```
	a. Smaller
	 b. Greater
	 c. Compilation error
	 d. Run time error.
	 e. None of these.

7. Guess the output of the following program is?

| ```c
#include<stdio.h>
int main()
{
        int a=100,b=200,c=300;
        if(!a>=500)
        b=300;
        c=400;
        printf("%d,%d,%d\n",a,b,c);
        return 0;
}
``` | a. Compilation error<br>b. 100,200,300<br>c. 100,200,400<br>d. 100,300,400<br>e.  None of these. |

8. What will the output of the following program?

| ```c
#include<stdio.h>
int main()
{
        int k,num=30;
        k=(num>5?(num<=10 ?
           100 : 200 ) : 500 );
        printf("%d\n",num);
        return 0;
}
``` | a. 200<br>b. 30<br>c. 100<br>d. 500 |

9. What will the output of the following program?

| ```c
#include<stdio.h>
int main()
{
        int a=0,b=1,c=2;
        *((a+1==1) ? &b : &a) = a ? b : c;
        printf("%d,%d,%d\n",a,b,c);
        return 0;
}
``` | a. 1,1,2<br>b. 2,2,2<br>c. 0,2,2<br>d. 0,1,2<br>e. Compilation error |

10. Which of the following is the correct usage of conditional operators used in C?

    1. a > b ? c = 30 : c = 40;   2. a > b ? c = 30;

    3. max = a > b ? a > c ? a : c : b ? b : c;   4. return (a > b) ? (a : b);

    ----

    a. Only 1   b. 1 and 3   c. Only 3   d. All   e. None

11. The keyword used to transfer control from a function back to the calling function is_____.

a. switch   b. goto   c. goback   d. return

12. What will the output of the following program?

```
#include<stdio.h>
int main()
{
        float a=0.3;
        if(0.3>=a)
            {
                    printf("True\n");
            }
        else
            {
                    printf("False\n");
            }
        return 0;
}
```

a. True
b. False
c. Compilation error
d. None of these.

13. What is the output of the following program?

```
#include<stdio.h>
int main()
{
        if(printf("ABC"))
                printf("True\n");
        else
                printf("False\n");
        return 0;
}
```

a. ABC
b. ABCTrue
c. True
d. ABCFalse
e. False
f. Error.

14. How many times loop will b execut?

```
#include<stdio.h>
int main()
{
        int i=0;
        while(i<=255)
            {
                    printf("%d\n",i);
                    i++;
            }
        return 0;
}
```

a. 1 time
b. 255 times
c. Infinite times
d. 256 times
e None of these.

15. Which of the following are unary operators in C?

1. !   2. sizeof   3. ~   4. &&

a. 1,2   b. 1,3   c. 2,4   d. 1,2,3

16. Comment on the following pointer declaration?

   int *ptr,p;

  a. ptr is a pointer to integer, p is not.

  b. ptr and p, both are pointers to integer.

  c. ptr is pointer to integer, p may or may not be.

  d. ptr and p both are not pointers to integer.

17. What will the output of the following program?

```#include<stdio.h>```
 ```int main()```
 ```{```
   ```int i=-3,j=2,k=0,m;```
   ```m=++i && ++j && ++k;```
   ```printf("%d,%d,%d,%d\n",i,j,k,m);```
   ```return 0;```
 ```}```
	a. -2,3,1,1
	 b. 2,3,1,2
	 c. 1,2,3,1
	 d. 3,3,1,2

18. What will the output of the following program?

```#include<stdio.h>```
 ```int main()```
 ```{```
   ```int x=55;```
   ```printf("%d,%d,%d\n",x=55,x=40,x=10);```
   ```return 0;```
 ```}```
	a. 55,40,10
	 b. 10,10,10
	 c. 40,40,40
	 d. 55,55,55
	 e. 1,1,1,1

19. How many times the program will print "India"?

```#include<stdio.h>```
 ```int main()```
 ```{```
   ```printf("IndiaBIX\n");```
   ```main();```
   ```return 0;```
 ```}```
	a. Infinite times
	 b. 32767 times
	 c. 2^{32} times
	 d. Till stack overflows
	 e. None

20. What will the output of the following program?

```void main()```
 ```{```
   ```int array[10];```
   ```int *i = &array[2], *j = &array[5];```
   ```int diff = j-i;```
   ```printf("%d\n",diff);```
 ```}```
	a. 3
	 b. 6
	 c. Garbage value
	 d. 12
	 e. Error

21. Which of the following statement s are correct about the function?

```long fun(int num)```
```{```
    ```int i;```
    ```long f=1;```
    ```for(i=1; i<=num; i++)```
    ```f=f*i;```
    ```return f;```
```}```
	a. The function calculates the value of 1 raised to power num.
	b. The function calculates the square_root of an integer.
	c. The function calculates the factorial value of an integer.
	d. None of above.

22. What will the output of the following program?

```#include<stdio.h>```
```void fun(int*,int*);```
```int main()```
```{```
    ```int i=5,j=2;```
    ```fun(&i,&j);```
    ```printf("%d,%d\n",i,j);```
    ```return 0;```
```}```
```void fun(int *i,int *j)```
```{```
    ```*i=*i**i;```
    ```*j=*j**j;```
```}```
	a. 5,2
	b. 10,4
	c. 2,5
	d. 25,4

23. What will the output of the following program?

```#include<stdio.h>```
```int fun();```
```int main()```
```{```
    ```int i;```
    ```i=7/8;```
    ```while(i)```
        ```{```
            ```fun();```
            ```main();```
        ```}```
    ```printf("Hello\n");```
    ```return 0;```
```}```
```int fun()```
```{```
    ```printf("Hi\n");```
```}```
	a. Hello
	b. Hi Hello
	c. No output
	d. Infinite loop.

24. What will the output of the following program?

```
void main()
{
      int a[10],i,*p;
      a[0]= 1;
      a[1]= 2;
      p = a;
      (*p)++;
}
```

a. a[1]= 3
b. a[0]= 2
c. a[1]= 2
d. a[0]= 3
e. Compilation error.

25. Write your experience about this test in short (50 words max) and put the rating of yourself out of 10 where you are in C programming.

THANK YOU!
DEAR STUDENTS.
I HOPE YOU ARE ENJOYING THE TEST...

Conducted By:- *Er. Vikash Sir.*