

**Bundelkhand Institute of Engineering and Technology, Jhansi**  
**Computer Science Students' Council (CoSSco) 2k19-20**  
**Technical Aptitude Questions**

Max. Time: 45 mins

**Instructions:**

- There are total 30 questions.
- Maximum time allotted is 45 minutes.
- There is only one option correct for each questions.
- Each question carries of 3 marks.
- There will be 1/3<sup>rd</sup> negative marking in case of wrong answer.
- No marks will be deducted or provided in case of unattempted question.
- All questions should be done on the basis of C language.

1. What will be the output of the following snippet?

```
void main(){
    int a = 1;
    switch(a)
    case 1:
        printf("%d",a);
    case 2:
        printf("%d",a);
    case 3:
        printf("%d",a);
    case 4:
        printf("%d",a);
    default :
        printf("%d",a);}
```

- a) 1111
- b) 1
- c) Compile time error : no break statements
- d) Compile time error : case label outside switch statement

2. Member of a union are accessed as \_\_\_\_\_.

- a) union.name.member
- b) union.pointer->member
- c) Both a & b
- d) None of these

3. Is it possible to write a program in C without using semi colon?

- a) True
- b) False
- c) Can't be determined

4. What will be the output of the following snippet?

```
void main(){
    int a[10];
    printf("%d",a[15]);
}
```

- a) Compile time error
- b) Run time error
- c) Garbage value
- d) None of these

5. Predict the output or error(s) for the following:

```
void main(){
    int const *p=5;
    printf("%d",++(*p));
}
```

- a) 6
- b) 5
- c) Garbage Value
- d) Compiler Error

6. What substitution should be made to //ref such that ptr1 points to variable c in the following code?

```
void main() {
    int a = 1, b = 2, c = 3;
    int *ptr1 = &a;
    int **sptr = &ptr1;
    //ref }
```

- a) \*sptr = &c
- b) \*\*sptr = &c
- c) \*ptr1 = &c
- d) None of these

7. What will be the output of the following snippet, finally?

```
void main(){  
    int a = 10  
    if (a || scanf("Rahul"))  
        printf("Yes"); }  
a) Compiler error  
b) Run time error  
c) Rahul Yes  
d) None of these
```

8. What will be the output of the following snippet?

```
void main(){  
    int a = 10,b=5,c=5;  
    int d;  
    d = b+c == a;  
    printf("%d",d);}  
a) Syntax error  
b) 1  
c) 5  
d) 10
```

9. Find the output.

```
int main() {  
    static int i=1;  
    if(i<5){  
        printf("%d",i++);  
        main(); }  
    return 0; }  
a) Infinite loop  
b) Program execution never ended  
c) 1234  
d) None of these
```

10. What will be the final output after giving input in scanf?

```
void main(){  
    int a=10;  
    scanf("%d",a);  
    printf("%d",a); }  
a) Compile time error  
b) Runtime error  
c) 10  
d) Depend on the given input in scanf()
```

11. What will be the output of the following program?

```
Void main(){  
    int x = 10;  
    x+=x++ + ++x + x;  
    printf("%d",x); }  
a) 44  
b) 45  
c) 46  
d) None
```

12. What will be the output of the program?

```
int X=40;  
int main() {  
    int X=20;  
    printf("%d\n", X);  
    return 0; }  
a) 20  
b) 40  
c) Error  
d) No output
```

13. Which of the following statements 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 the above
```

14. What will be the output of the following snippet?

```
struct test{
    short int k;
    char c; };
int main() {
    printf("%d",sizeof(test));
    return 0; }
```

- a) Compile time error
- b) Run time error
- c) 3
- d) None of these

15. In computer programming, which is the correct order of mathematical operators ?

- a) Addition, Subtraction, Multiplication, Division
- b) Division, Multiplication, Addition, Subtraction
- c) Multiplication, Addition, Division, Subtraction
- d) Addition, Division, Modulus, Subtraction

16. How will you print \n on the screen?

- a) printf("\n");
- b) echo "\\n";
- c) printf('\n');
- d) printf("\\n");

17. What will be the output of the program?

```
#include<stdio.h>
#define MESS junk
int main(){
    printf("MESS\n");
    return 0;}
```

- a) junk
- b) MESS
- c) Error
- d) Nothing will print

18. What will be the output of the program ?

```
int main(){
    char *str;
    str = "%s";
    printf(str, "K\n");
    return 0; }
```

- a) Error
- b) No output
- c) K
- d) %s

19. The binary equivalent of 5.375 is

- a) 101.10110111
- b) 101.011
- c) 101011
- d) None

20. What will be the output?

```
void main(){
    char *s = "C++";
    printf("%s ", s);
    s++;
    printf("%s", s); }
```

- a) C++ C++
- b) C++ ++
- c) ++ ++
- d) Compiler error

21. Which of the following is correct for a function definition along with storage-class specifier in C language?

- a) int fun(auto int arg)
- b) int fun(static int arg)
- c) int fun(register int arg)
- d) All are correct.

22. Find the output.

```
void main(){
    int x = 5;
    if(x=5){
        if(x=5) break;
        printf("Hello"); }
    printf("Hi"); }
```

- a) Hi
- b) HelloHi
- c) Compile error
- d) Compiler warning

23. For a given integer, which of the following operators can be used to "set" and "reset" a particular bit respectively?

- a) | and &
- b) && and ||
- c) & and |
- d) || and &&

24. Pick the correct statement for const and volatile.
- a) const is the opposite of volatile and vice versa.
  - b) const and volatile can't be used for struct and union.
  - c) const and volatile can't be used for enum.
  - d) const and volatile can't be used for typedef.
  - e) const and volatile are independent i.e. it's possible that a variable is defined as both const and volatile

25. What will be the output of the following snippet?

```
if(!printf("#Me "))
    printf("Too");
else
    printf("Two");
```

- a) #Me Too
- b) #Me Two
- c) Compile time error
- d) Run time error

26. What will be output of the following snippet?

```
#include<stdio.h>
#define fun main
int fun(void){
    printf("Cossco");
    return 0;}
```

- a) Run time error
- b) Compile time error
- c) No output
- d) Cossco

27. Find the output of the following code.

```
int main(){
    char *s="coding competition";
    int n=4;
    printf("%. *s",n,s);
    return 0; }
```

- a) comp
- b) codi
- c) Compiler error
- d) Runtime error

28. Find the output.

```
int main() {
    char *str="hello,world";
    str[5]='.';
    printf("%s",str);
    return 0; }
```

- a) hello.world
- b) hello,world
- c) compiler error
- d) None of these

29. Which of the following statements are correct about an if-else statements in a C-program?

- 1:Every if-else statement can be replaced by an equivalent statements using ?: operators
- 2:Nested if-else statements are allowed.
- 3:Multiple statements in an if block are allowed.
- 4:Multiple statements in an else block are allowed.

- a) 1 and 2
- b) 2 and 3
- c) 1,2 and 4
- d) 2,3,4

30. A program attempts to generate as many permutations as possible of the string, 'abcd' by pushing the characters a, b, c, d in the same order onto a stack, but it may pop off the top character at any time.

Which one of the following strings CANNOT be generated using this program?

- a) abcd
- b) dcba
- c) cbad
- d) cabd