



## قائمة الأسئلة

برمجة الحاسوب وتطبيقاتها - كلية الهندسة - قسم الميكانيك - المستوى الثالث- ثلات ساعات - درجة هذا الاختبار (40)

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- 1) which of the following is not reserved words
- 1) - int
  - 2) - return
  - 3) - cost
  - 4) + num
- 2) Function that doesn't have a return type are called \_\_\_\_\_ function.
- 1) + void
  - 2) - Recursive
  - 3) - sum
  - 4) - Factorail
- 3) The statement : return 10+8 ; return the value :
- 1) - 17
  - 2) - 15
  - 3) + 18
  - 4) - None of the above
- 4) function is executed when it is
- 1) - Definition
  - 2) - Prototype
  - 3) - Declared
  - 4) + call
- 5) Consider that : int y = !(21< 5 || 3 < 5 && 3 > x ) ? 7 : 9 ; what is the value of y if x = 2 ;
- 1) - y = 7
  - 2) + y = 9
  - 3) - y = 10
  - 4) - y = 21
- 6) \_\_\_\_\_ identifier are not accessible use outside the function:
- 1) + Local
  - 2) - global
  - 3) - Static
  - 4) - Automatic
- 7) In a \_\_\_\_\_ control structures, computation exercises particular statements depending on some conditions.
- 1) - Sequential
  - 2) - Repetition
  - 3) + Selection
  - 4) - Non of the above
- 8) Which of the following executes directly after continue ststement in for Loop:
- 1) - I <=10
  - 2) + i++
  - 3) - For statement
  - 4) - Non of the above
- 9) X++ has the same meaning as:
- 1) + X = X + 1;
  - 2) - X / = 17;
  - 3) - X = x - 4;



- 4) - X \*= 1
- 10) By default. Variables declared within a block are automatic variables
- 1) + True .
  - 2) - FALSE.
- 11) What is the purpose of cin?
- 1) - includes a header file
  - 2) - print variable's value
  - 3) + Take information (data) from the user
  - 4) - All of the above is true
- 12) How many nested if statements can an if statement contain?
- 1) - Only two
  - 2) + As many as you want
  - 3) - Only one
  - 4) - None

13) The output of executing the following while loop code is to print End Exam ten times.

```
int main()
{
    int j = 0;
    while (j >= 10)
    {
        cout << "End Exam";
        j++;
    }
}
```

- 1) - True.
  - 2) + FALSE.
- 14) The following array declaration is not valid int x[-30];
- 1) + True .
  - 2) - FALSE.
- 15) The following two instructions are identical and are used to correctly initialize the elements of an array.

```
int list[] = { 18, 13, 14, 16 };
int list[4] = { 18, 13, 14, 16 };
```

- 1) + True .
  - 2) - FALSE.
- 16)





The output of executing the following code is: 100

```
#include <iostream>
using namespace std;

void abc(float p)
{
    cout << p << endl;
}

int main()
{
    int m = 100;
    abc(m);
}
```

- 1) + True .  
2) - FALSE.  
17) The \_\_\_\_\_ statement is used to ignore the following steps and continue executing the repeat statement  
1) + continue;  
2) - break;  
3) - stop;  
4) - Non

18) Consider the following program segment. A complete C++ program with these statements will print \_\_\_\_\_.

```
int main()
{
    int a;
    for (a = 7; a <= 11; a++)
    {
        cout << a << endl;
        if (a > 9)      break;
    }
    cout << a + 10;
}
```

- 1) - 7 8 9 10.  
2) + 7 8 9 10 20.  
3) - 7 8 9 9 9 9 9 ..... infinite  
4) - 7 8 9 10 11 22

19) Consider the following function definition:

```
int func(int x, double y, char u, string name)
{
    //function body
}
```

Which of the following are correct function prototypes of the function func?

- 1) - int func(x, y, u, name);  
2) - int func(int x, double y, char u, string name);





- 3) + int func(int x, double y, char u, string name); and int func(int, double, char, string);  
4) - int func(int, double, char, string);

20) Consider the following statements:

```
int num1, num2, num3;
double length, width, height;
double volume;
num1 = 6; num2 = 7; num3 = 4;
length = 6.2;
width = 2.3;
height = 3.4;
```

and the function prototype :

```
double box(double, double, double);
```

Which of the following statements are valid?

- 1) - volume = box(length, 3.8, height);  
2) - cout << box(num1, num3, num2) << endl;  
3) - volume = box(length, num1, height);  
4) + All of the above is true

21) The variable that are listed in the function's calls are called

- 1) - Formal Parameter  
2) - Declared parameter  
3) + Actual Parameter  
4) - Non of them

22) What is stored in list array after the following C++ code executes?

```
int main()
{
    int list[5];
    for (int i = 1; i <= 5; i++)
    {
        list[i] = i + 5;
        cout << list[i] << " ";
    }
}
```

- 1) + 6 7 8 9 10  
2) - 0 1 2 3 4  
3) - 10 12 13 14 15  
4) - 10 11 12 13 14

23) Which of the flowing is a complete correct function definition?

- 1) - int func();  
2) + int func(int x) { x = x+1; return x; }  
3) - void func(int) {cout<< "Hello";}  
4) - void func(int) {cout<< Hello';}

24)





Insert the missing part to print the number 8 in main, by using a specific keyword inside my Function:

```
int myFunction(int x)
{
    ----- 5 + x;
}
int main()
{
    cout << myFunction(3);
}
```

- 1) - return 0;  
2) - return;  
3) + return  
4) - All of the above is true
- 25) In C++, the head of a function consists of its :  
1) - Function name  
2) - Function return type  
3) - Function parameter list  
4) + All of the above is true
- 26) Which of the following function return no value?  
1) - sqrt()  
2) - log()  
3) + printDate  
4) - cos()
- 27) A \_\_\_\_\_ is a function that calls itself either directly or indirectly through another function.  
1) - start function  
2) - fall function  
3) + recursive function  
4) - final function
- 28) Fill in the blanks to declare an array of integers containing 9 elements. Assign to each element the value 45 using the for loop.

```
int main()
{
    int anArr[____];
    for (int x = 0; x <= ____; x++)
    {
        anArr[____] = 45;
    }
}
```

- 1) - 8, 9, i  
2) + 9, 8, x  
3) - 45, 8, x  
4) - 45
- 29) Which operation is used as Logical 'AND'





- 1) - Operator &  
2) - Operator ||  
3) + Operator &&  
4) - Operator +
- 30) The sequence of object that have the same type, is called  
1) - Function  
2) - Operator  
3) + Array  
4) - Stacks
- 31) Which of the following correctly declares an array?  
1) + int array[10];  
2) - int array;  
3) - array{10};  
4) - array array[10];
- 32) The index of the first and end array element are  
1) - 1, n  
2) - 1, n-1  
3) - 0, n  
4) + 0, n-1
- 33) \_\_\_\_\_ function is used to get the absolute value.  
1) + fabs( )  
2) - floor()  
3) - pow()  
4) - exp()
- 34) The keyword \_\_\_\_\_ is used in a function header to indicate that a function does not return a value.  
1) - int  
2) - double  
3) + void  
4) - include
- 35) A function \_\_\_\_\_ tells the compiler the name of function, return type and its arguments.  
1) - Definition  
2) - invoking  
3) + Prototype  
4) - call
- 36) An array with m rows and n columns is called \_\_\_\_\_ array  
1) - n by m  
2) - n by n  
3) - m by m  
4) + m by n
- 37) Select the true option, prefix and postfix have other forms is...  
1) - increment  
2) - decrement  
3) + both increment and decrement  
4) - none of these
- 38) to calculate the factorial of a number the recursive definition of a factorial is  
1) -  $n! = n * (n-1)! + (n-2)!$   
2) +  $n! = n * (n-1)!$   
3) -  $n! = n * (n-1)$   
4) -  $n = n * (n-1)!$





39) Print the value of the second element in the cars array.

- 1) - cout<<cars[2];
- 2) - cout<<cars[1];
- 3) + cout<<cars[0+1]; and cout<<cars[1];
- 4) - cout<<cars[0+1];

40) What the following array declarations are valid?

- 1) - int list[] = {18, 13, 14, 16};
- 2) - int x[10] = {1, 7, 5, 3, 2, 8};
- 3) - double y[4] = {2.0, 5.0, 8.0, 11 };
- 4) + all of the above is true

