

1) #include<userdefined.h>

Which of the following is the correct syntax to add the header file in the C++ program?

- a. #include<userdefined>
- b. #include "userdefined.h"
- c. <include> "userdefined.h"
- d. Both A and B

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2) Which of the following is the correct syntax to print the message in C++ language?

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- a. cout <<"Hello world!";
- b. Cout << Hello world! ;
- c. Out <<"Hello world!;
- d. None of the above

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3) Which of the following is the correct identifier?

- a. \$var\_name
- b. VAR\_123
- c. varname@
- d. None of the above

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4) Which of the following is the address operator?

- a. @
- b. #
- c. &
- d. %

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5) Which of the following features must be supported by any programming language to become a pure object-oriented programming language?

- a. Encapsulation
- b. Inheritance
- c. Polymorphism
- d. All of the above

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6) The programming language that has the ability to create new data types is called\_\_.

- a. Overloaded
- b. Encapsulated
- c. Reprehensible
- d. Extensible

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7) Which of the following is the original creator of the C++ language?

- a. Dennis Ritchie
- b. Ken Thompson
- c. Bjarne Stroustrup
- d. Brian Kernighan

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8) Which of the following is the correct syntax to read the single character to console in the C++ language?

- a. Read ch()
- b. Getline vh()
- c. get(ch)

d. `scanf(ch)`

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9) Which of the following statements is correct about the formal parameters in C++?

- a. Parameters with which functions are called
- b. Parameters which are used in the definition of the function
- c. Variables other than passed parameters in a function
- d. Variables that are never used in the function

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10) The C++ language is \_\_\_\_\_ object-oriented language.

- a. Pure Object oriented
- b. Not Object oriented
- c. Semi Object-oriented or Partial Object-oriented
- d. None of the above

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11) Which of the following features is required to be supported by the programming language to become a pure object-oriented programming language?

- a. Encapsulation
- b. Inheritance
- c. Polymorphism
- d. All of the above

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12) Which of the following comment syntax is correct to create a single-line comment in the C++ program?

- a. `//Comment`
- b. `/Comment/`

- c. Comment//
- d. None of the above

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13) C++ is a \_\_\_ type of language.

- a. High-level Language
- b. Low-level language
- c. Middle-level language
- d. None of the above

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14) For inserting a new line in C++ program, which one of the following statements can be used?

- a. \n
- b. \r
- c. \a
- d. None of the above

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15) Which one of the following represents the tab?

- a. \n
- b. \t
- c. \r
- d. None of the above

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## Set of MCQ Based on Arrays of the C++

1) Which of the following refers to characteristics of an array?

- a. An array is a set of similar data items
- b. An array is a set of distinct data items
- c. An array can hold different types of datatypes
- d. None of the above

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2) If we stored five elements or data items in an array, what will be the index address or the index number of the array's last data item?

- a. 3
- b. 5
- c. 4
- d. 88

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3) Which of the following is the correct syntax for declaring the array?

- a. `init array []`
- b. `int array [5];`
- c. `Array[5];`
- d. None of the above

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4) Which of the following is the correct syntax for printing the address of the first element?

- a. `array[0];`
- b. `array[1];`
- c. `array[2];`
- d. None of the above

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5) Which of the following gives the 4th element of the array?

- a. Array[0];
- b. Array[0];
- c. Array[3];
- d. None of the above

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6) What is the output of the given program?

```
1. #include < stdio.h >
2. using namespace std;
3. int main()
4. {
5.     int array[] = {10, 20, 30};
6.     cout << -2[array];
7.     return 0;
8. }
```

- a. -15
- b. -30
- c. Compiler error
- d. Garbage value

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7) Which type of memory is used by an Array in C++ programming language?

- a. Contiguous
- b. None-contiguous
- c. Both A and B
- d. Not mentioned

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8) Which of the following is the correct definition of sorting?

- a. Sorting is a type of process in which the data or information is ordered into a specific order. Example increasing orders, decreasing.
- b. Sorting information or data only in increasing order
- c. Sorting is a type of process in which data elements are modified or manipulated
- d. None of the above

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9) How many types of the array are there in the C++ programming language?

- a. In the C++ programming language, there are three types of arrays
- b. In the C++ programming language, there are four types of arrays
- c. In the C++ programming language, there are two types of arrays
- d. Both A and B

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10) In C++, for what purpose the "rank()" is used?

- a. It returns the size of each dimension
- b. It returns the maximum number of elements that can be stored in the array
- c. It returns the dimension of the specified array
- d. None of the above

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11) Which one of the following is the correct definition of the "is\_array();" function in C++?

- a. It checks that the specified variable is of the array or not
- b. It checks that the specified array of single dimension or not
- c. It checks that the array specified of multi-dimension or not
- d. Both B and C

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12) Observer the given C++ program carefully and choose the correct output from the given options:

**Program**

```
1. #include <iostream>
2. #include <string>
3. using namespace std;
4. int main()
5. {
6.     cout<<is_array<int>::value; // case A
7.     cout<<is_array<char[10]>::value; // case B
8.     cout<<is_array<string>::value; // case c
9.     return 0;
10.}
```

- a. 110
- b. 001
- c. 010
- d. None of the above

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13) Read the given C++ program carefully and choose the correct output from the given options:

**Program**

```
1. #include <iostream>
2. #include <string>
3. using namespace std;
4. int main()
5. {
6.     cout<<rank<int[10]>::value; // Case A
7.     cout<<rank<char[10][10]>::value; // Case B
8.     cout<<rank<string[10][10][10]>::value; //Case C
9.     return 0;
10.}
```

- a. 121



- b. 321
- c. 123
- d. 010

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14) What did we call an array of the one-dimensional array?

- a. Single Dimensional array
- b. Multi-Dimensional array
- c. 2D Array (or 2-Dimensional array)
- d. Both A and B

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15) Which types of arrays are always considered as linear arrays?

- a. Single-dimensional
- b. Multi-dimensional
- c. Both A and B
- d. None of the above

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16) Which of the following can be considered as the object of an array?

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- a. Index of an array
- b. Elements of the Array
- c. Functions of the Array
- d. All of the above

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17) How many types of elements can an array store?

- a. Same types of elements
- b. Char and int type
- c. Only char types
- d. All of the above

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18) Elements of a one-dimensional array are numbered as 0,1,2,3,4,5, and so on; these numbers are known as \_\_\_\_

- a. Subscript of Array
- b. Members of Array
- c. Index values
- d. Both A and C

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## MCQ Based on the Oops Concepts of the C++

1) Which of the following statement is true about the new and malloc?

I. The "new" is a type of operator while "malloc" is a kind of function  
II. "new" invokes a constructor, whereas "malloc" does not invoke the constructor  
III. "malloc" returns void pointer and also needed to typecast whereas "new" returns required the pointer

- a. Only I
- b. Both I and II
- c. I, II, III
- d. None of the above

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2) Which of the following statement is true about the new and malloc?

I. The pointer object initialization of a specific class using "malloc" also needs to include constructor calls; on the other hand, doing so with the "new" keyword does not include any constructor calls.

II. The pointer object initialization of a specific class using the "new" keyword also needs to include a constructor call. On the other hand, doing so with the "malloc" does not need to include any constructor calls.

III. Pointer object initialization of a specific class using either "new" or "malloc" involves the constructor call.

- a. Only II
- b. Both II and III
- c. Only I
- d. None of the above

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3) Which of the following statement is correct about Virtual Inheritance?

- a. It is a technique to ensure that a private member of a base class can be accessed
- b. It is a technique to optimize the multiple inheritances
- c. It is a technique to avoid the multiple inheritances of the classes
- d. It is a C++ technique to avoid multiple copies of the base class into the derived or child classes

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4) Which one of the following statements correctly refers to the Delete and Delete[] in C++ programming language?

- a. Delete is syntactically correct although, if the Delete[] is used, it will obtain an error.
- b. The "Delete" is used for deleting the standard objects, while on the other hand, the "Delete[]" is used to delete the pointer objects
- c. The "Delete" is a type of keyword, whereas the "Delete[]" is a type of identifier
- d. The "Delete" is used for deleting a single standard object, whereas the "Delete[]" is used for deleting an array of the multiple objects

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5) Consider the following given program and choose the most appropriate output from the given options:

```
1. #include <iostream>
2. using namespace std;
3. class A{
4. public:
5.     A(){
6.         cout<<"Constructor called\n";
7.     }
8.     ~A(){
9.         cout<<"Destructor called\n";
10.    }
11.};
12. int main(int argc, char const *argv[])
13. {
14.     A *a = new A[5];
15.     delete[] a;
16.     return 0;
17. }
```

- a. Segmentation failure.
- b. Error.
- c. The Constructor will be invoked five times, and after that destructor will be invoked only once.
- d. The Constructor will be invoked five times, and after that destructor will also be invoked five times.

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6) Consider the following given program and choose the most appropriate output from the given options:

```
1. #include<iostream>
2. using namespace std;
3. class Base {
4. public:
5.     Base()
```

```

6.    { cout<<"Constructing Base \n"; }
7.    ~Base()
8.    { cout<<"Destructing Base \n"; }
9. };
10. class Derived: public Base {
11. public:
12.     Derived()
13.     { cout<<"Constructing Derived \n"; }
14.     ~Derived()
15.     { cout<<"Destructing Derived \n"; }
16. };
17.
18. int main(void)
19. {
20.     Derived *d = new Derived();
21.     Base *b = d;
22.     delete b;
23.     return 0;
24. }

```

- Constructing base, Constructing Derived, Destructing Base, Destructing Derived
- Constructing base, Constructing Derived, Destructing Base
- Constructing base, Constructing Derived, Destructing Derived, Destructing Base
- None of the above

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7) Which of the following can be considered as the correct syntax for declaring an array of pointers of integers that has a size of 10 in C++?

- int arr = new int[10];
- int \*arr = new int\*[10]
- int \*\*arr = new int\*[10];
- int \*arr = new int[10];

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8) Which of the following can be considered as the members that can be inherited but not accessible in any class?

- a. Public
- b. Protected
- c. Private
- d. Both A and C

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9) Which of the following can be used to create an abstract class in the C++ programming language?

- a. By using the pure virtual function in the class
- b. By declaring a virtual function in the base class
- c. By declaring the virtual keyword afterward, the class Declaration
- d. None of the above

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10) Which of the following statements is correct about the class?

- a. An object is an instance of its class
- b. A class is an instance of its object
- c. An object is the instance of the data type of that class
- d. Both A and C

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11) Which of the following statements is correct about the friend function in C++ programming language?

- a. A friend function is able to access private members of a class
- b. A friend function can access the private members of a class
- c. A friend function is able to access the public members of a class
- d. All of the above

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12) Which of the following statement is not true about C++?

- a. Members of a class are public by default
- b. A class cannot have the private members
- c. A structure can have the member functions
- d. All of the above

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13) Which of the following given statement is completely true?

I. In an object-oriented programming language, all the function calls are resolved at compile-time.

II. In a procedure programming language, all the function calls are resolved at compile-time

- a. Only II
- b. Only I
- c. Both I & II
- d. None of the above

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14) Which one of the following cannot be used with the virtual keyword?

- a. Constructor
- b. Destructor
- c. Member function
- d. None of the above

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15) Which of the following is used for implementing the late binding?

- a. Operator Functions

- b. Constant Functions
- c. Virtual Functions
- d. Both A and B

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16) Which of the following statements supports that reusable code should be one of the desirable features of any language?

- a. It helps in reducing the maintenance cost
- b. It helps in reducing the testing time
- c. It helps in reducing both the maintenance time and testing time
- d. It helps in reducing the compile time

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50) Which of the following statement is correct about the C++ programming language?

- a. In C++, both the Static and Dynamic type checking are allowed
- b. In C++, member function are allowed to be of the type const
- c. In C++, Dynamic checking is allowed
- d. None of the above

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18) Which of the following is not a kind of inheritance?

- a. Distributed
- b. Multiple
- c. Multi-level
- d. Hierarchal

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19) What will happen if "In a C++ program a class has no name"?

- a. It is not even allowed in C++



- b. It will not have the Constructor
- c. It will not have the destructor
- d. Both B and C

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20) Which type of approach is used by the C++ language?

- a. Right to left
- b. Left to right
- c. Top to bottom
- d. Bottom-up

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21) Which of the following concept refers to adding new components to the program at the run time?

- a. Dynamic Loading
- b. Dynamic binding
- c. Data hiding
- d. Both A & B

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22) How can one implement the compile-time Polymorphism in the C++ programming language?

- a. By using the Template
- b. By using the concepts of inheritance
- c. By using both the virtual functions and inheritance
- d. By using only the virtual functions

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23) How can one implement the run-time Polymorphism in the C++ programming language?

- a. By using the Template
- b. By using the concepts of inheritance
- c. By using both the virtual functions and inheritance
- d. By using only the virtual functions

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24) Which of the following offers a programmer the facility of using a specific class object into other classes?

- a. Polymorphism
- b. Abstraction
- c. Inheritance
- d. Composition

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25) Which one of the following cannot be a friend in C++ languages?

- a. A Class
- b. A Function
- c. An Object
- d. None of the above

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26) How are the references different from the pointer?

- a. A reference cannot be modified once it initialized
- b. There is no need of an extra operator for dereferencing of a reference
- c. A reference cannot be NULL
- d. All of the above

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27) Among the following given options, which can be considered as a member of a class?

- a. Class variable
- b. Member variable
- c. Class functions
- d. Both A and B

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28) Which of the following refers to the wrapping of data and its functionality into a single individual entity?

- a. Modularity
- b. Abstraction
- c. Encapsulation
- d. None of the above

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29) Which of the following refers to using the existing code instead of rewriting it?

- a. Inheritance
- b. Encapsulation
- c. Abstraction
- d. Both A and B

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30) Among the following, which shows the Multiple inheritances?

- a.  $X, Y \rightarrow Z$
- b.  $X \rightarrow Y \rightarrow Z$
- c.  $X \rightarrow Y; X \rightarrow Z$
- d. None of the above

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31) Which of the following statements is true about the C++ programming language?

- a. C++ is an object-oriented programming language
- b. C++ is a procedural programming language
- c. C++ is a functional programming language
- d. C++ is both procedural and object-oriented language

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32) Among the following, which statement is correct about the Modularity?

- a. Modularity means hiding the parts of the program
- b. Modularity refers to dividing a program into subsequent small modules or independent parts
- c. It refers to overloading the program's part
- d. Modularity refers to wrapping the data and its functionality into a single entity

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33) Read the following program carefully and find out which concept from the given options is not used or missing in the following program?

Program

```
1. class A
2. {
3.     int x;
4.     public:
5.     void print(){cout<<"hello"<<x;}
6. }
7.
8. class B: public A
9. {
10.     int y;
11.     public:
12.     void assign(int a){y = a;}
13. }
```

- a. Polymorphism
- b. Encapsulation

- c. Inheritance
- d. Abstraction

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34) Which of the following options correctly explains the concept of Polymorphism?

a.

- 1. **int** func(**float**);
- 2. **float** func(**int**, **int**, **char**);

b.

- 1. **int** func(**int**);
- 2. **int** func(**int**);

c.

- 1. **int** func(**int**, **int**);
- 2. **float** func1(**float**, **float**);

d. None of the above