

Class XI

Assignment of lesson 6-9(9.4)

MCQ Questions

1. What is the correct value to return to the operating system upon the successful completion of a program?
A. -1
B. 1
C. 0
D. Programs do not return a value.
2. What is the only function all C++ programs must contain?
A. start()
B. system()
C. main()
D. program()
3. What punctuation is used to signal the beginning and end of code blocks?
A. { }
B. -> and <-
C. BEGIN and END
D. (and)
4. What punctuation ends most lines of C++ code?
A. .
B. ;
C. :
D. '
5. Which of the following is a correct comment?
A. /* Comments */
B. ** Comment **
C. /* Comment */
D. { Comment }
6. Which of the following is not a correct variable type?
A. float
B. real
C. int
D. double
7. Which of the following is the correct operator to compare two variables?
A. :=
B. =
C. equal
D. ==
8. Evaluate a) $!(1 \& \& 1 \ || \ 1 \ \& \& \ 0)$ b) $22 \% 5$
9. Give an equivalent statement of following statement:- $P = 2x + 3y / 6z$
10. Convert following if to conditional operator
If(a>b)
Lg=a;
Else
Lg=b;

If (a>10) B=a+10; else if (a>5) B=a+20; else B=a+5;
--

11. Evaluate (i). $(a+5 > c-2) \ \& \& \ (a-5 < c+5)$ (ii). $b = ++a + c++$ if $a=10$ and $c=20$

12. What will be the output of following statements:-

- (i) `cout<<a ==20;` (ii) `cout<<a>20; if a=30;`

13. Find output

```
#include <iostream.h>
#include <conio.h>
void main()
{ clrscr();
  cout << "\n***** EVALUATION OF EXPRESSIONS ***** \n\n";
  int a=10,b=20,c=30;
  cout<<"a"<<a<<" b"<<b<<" c"<<c;
  int z=(a++)*c/a+b;
  cout << "\nz=(a++)*c/a+b"<<z;
  getch();
  cout<<z;
  clrscr();
  cout << "\n***** EVALUATION OF EXPRESSIONS *****\n\n";
  a=10,b=20,c=30;
  cout<<"a"<<a<<" b"<<b<<" c"<<c;
  z=++a*c/a+b;
  cout << "\nz=++a*c/a+b = "<<z;
  getch();
  cout<<z;
  clrscr();
  cout << "\n***** EVALUATION OF EXPRESSIONS *****\n\n";
  a=1,b=2,c=3;
  cout<<"a"<<a<<" b"<<b<<" c"<<c;
  z= b+ c%a * ++b ;
  cout<<z;
  clrscr();
  cout << "\n***** EVALUATION OF EXPRESSIONS *****\n\n";
  z=45;
  int q=45;
  cout<< "\nq="<<q;
  cout<< "\nq--="<<q--;
  cout<< "q= " <<q;
  getch();
  clrscr();
  cout << "\n***** EVALUATION OF EXPRESSIONS *****\n\n";
  cout << "\nz="<<z;
  cout << "\nz--:"<<z--;
  cout << "\n--z:"<<--z;
  cout << "\nz="<<z;
  int qq=-- z - z++;
  cout << "\n--z-z++ = "<<qq;
  cout << "\nz="<<z;
  cout << "\n";
  getch();
  clrscr();
```

```

cout << "\n***** EVALUATION OF EXPRESSIONS *****\n\n";
z=45;
cout << "\nz=" << z;
cout << "\nz++:" << z++;
cout << "\n++z:" << ++z;
cout << "\n++z+z++ = " << ++z+z++;
getch();
clrscr();
cout << "\n***** EVALUATION OF EXPRESSIONS *****\n\n";
z=45;
cout << "\nz=" << z;
cout << "\n(++z)--:" << (++z)--;
cout << "\n++z:" << ++z;
getch();
}

```

Q give the output of :

- cout << a==4;
- 2>3 || 3>5
- 4>5 && 5>6
- 2>5 || 5>2
- !3>4
- 0 || 1
- 0 && 1
- 4 && 6>3

Long Answer

Q. Why main() is an important function? What will happen if the program has no main()?

Q What is the importance of iostream.h?

Q What is the purpose of header file in a program?

Q What do you understand by 'code generator'?

Q What is the importance of header file? Give header file of :
cin, getch(), setw(), pow()

Q What do you understand by comment entry in C++? Give example of types of comment?

Q Define Indentation.

Q Define and Give example of syntax, logical and run-time error.

Q How many ways are there in C++ to represent an integer constant? Give example of each.

Q What are the sizes of the following constants:

1. '\a' 2. "a" 3) Reema's \\ Copy " 4 '9'

Q Define the following and give example:

1. Identifier
2. Literal
3. Keyword
4. Operator

Q Write a single cout statement to display the following output:

Program=20

Document=23

Logic=21

Flow chart=18

Q Write a program to accept the radius of a circle and display its area and circumference.

Q How many bytes are allocated to long int, long float and long double variable?

Q What is the difference between 33 and 33L?

Q What is a reference variable? Give example.

Q Find the error in following:

1. `const int x; x=20;`
2. `int x=3=b;`
3. `char ch='as';`
4. `int 3=b;`
5. `int &y=30;`

Q What is the order of evaluation of following expression:

1. `a>b || b<d`
2. `a==y && y>m || k<l`
3. `a>b && b<c || c<! d+3`

Q What is the result of following expression if

- (i) `check = 3 cout<<!check;`
- (ii) `check=0; cout<<!check;`
- (iii) `check=-3; cout<<!check;`

Q What is the result of following expression `a>=b && (a+b_>a` when

- (i) `a=3,b=0`
- (ii) `a=7,b=7`

Q Identify the order of evaluation in the following expression

- (i) `4*5+7*2-8%3+4`
- (ii) `(4+5) && 4/2 -1 +4 || 2-4`
- (iii) `(9-9) || (4-5) &&(6*5)`

Q What will the value of x if (i) `ans=700, val=300` (ii) `ans=800, val=700`

`x=((ans-val)<500)?150:50`

Q Given the following code fragment:

```
int ch=20;
```

```
cout<<++ch<<"\n"<<ch<<"\n";
```

- (i) What will be output of following code?
- (ii) What is the effect of replacing `++ch` with `ch++`?
- (iii) What is the effect of replacing `++ch` with `ch+1`;

Q What will be the result of following two expression if `i=10` initially?

- (i) `i++<10`
- (ii) `++i<10`

Q Given the two expression

- (i) `val=3`
- (ii) `val==3`

a) How are these two different?

b) What will be the resultant value of `val` if the initial value of `val` is 5?