

علي اسماعيل شحاده

1) all of the following are example of integer date type except:

- a. int b. double
c.bool d.long e.none of the above

2) the value of expression $26-3\%14+1$ is

- a.0 b.23
c.24 d.25 e.none of the above

3) suppose that x is in int variable .chosse the value of x after the following statement:

`x=16+static_cast<int>(12.5)/2;`

- a.x=20 b.x=20.25
c.x=21 d. x=22 e.none of the above

4) diven

`int one;`

`double tow;`

`bool four;`

which of the following assignment are valid?

(i) `one =7*3%4.0`

(ii) `2.3+3.5\tow`

(iii) `four=(2<=3)`

- a.(i) and (ii) are valid c. (ii) and (iii) are valid
b.only (iii) is valid d.(i) and (iii) are valid
e.none of the above

5) choose the value after following statement :

`cin >>x >>ch >>y;`

a. `x=15 ch=A y=73.2`

b. `x=15 ch=a y=73.0`

c. `x=15 ch=A y=73`

d. this statement result in error becace there no spaces in 15 and a

e. none of the above

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6) what are the value after the following statement:

```
cin.get(ch1)
cin>>alpha
cin.get(ch2)
```

- a. ch1=A ch2=' ' alpha=18
- b. ch1=A ch2='1 ' alpha=8
- c. ch1=A ch2=' ' alpha=1
- d. ch1=A ch2='\n' alpha=1
- e. none of the above

7) suppose that $x=25.67$ $y=356.872$ and $z=7623.9634$. what is the output of the following statement :

```
cout<<fixed<<showpoint
cout<<setprecision(2)
cout<<x<<"<<y<<"<<z<<endl
```

- a.25.67356.87 7623.96 b.25.670.356.87 7623.97
- c.25.67 .356.88 7623.79 e.25.670 356.876 7623.967
- e. none of the above

8) suppose that x is in int variable .which of the following expression always false:

- a. $(x>0)\|(x<=0)$
- b. $(x<0)\&\&(x==0)$
- c. $(x>=0)\&\&(x<=0)$
- d. $(x>=0)\|(x==0)$
- e. none of the above

9) what is the output of the statement :

```
cout<<setfill('8')
cout <<"12345678901234567890"<<endl;
cout<<(5)<<"18"<<setw(7)<<"happy"<<setw(6)<<"sleepy"<<endl;
```

- a.12345678901234567890

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***18 happy sleepy

b.12345678901234567890

***18**happy**sleepy

c.12345678901234567890

***18**happysleepy

d.12345678901234567890

***18**happy sleepy**

e. none of the above

10) suppose x and y are int variable .consder the following statement..

if (x>3)

y=1

if (x==3)

y=1

if (x<3)

y=2

what statement is Not equal to this cpde ?

a. if (x>=3)

y=1

else

y=2

b. y=(x<3)?2:1

c. if (x>3 && x==3)

y=1

else if (x<3)

y=2

d. y=(x>=3)?1:2

e. none of the above

11) consider the following statement

int y=(12<5 || 9 <=12&&9>x)?2:3

a. 2

b. 3

c. 7

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- d. 9
- e. none of the above

12) what is the output of the following code fragment if

```
input 4
int num
int alpha=10
cin>>num
switch(num)
{
case 3:
alpha++
break
case 4:
case 6:
alpha=alpha+3
case 8:
alpha =alpha+4
default:
alpha=alpha+5
break
}
cout<<alpha
```

- a. 13
- b. 14
- c. 17
- d. 22
- e. none of the above

13) what is the output following c++ code:

```
num=11
while (num%)
NUM+NUM-
COUT <<NUM--<<ENDL
```

- a. 0
- b. 6
- c.8
- d.22

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14) what is the output of the following code ?

```
int x=0
```

```
int i
```

```
for(i=0;i<4;++1)
```

```
x++
```

```
if (x=3)
```

```
cout <<"***"
```

```
cout<<endl
```

- a. *
- b. **
- c. ***
- d. ther is no input
- e. none of the above

15) what Is the output of the following c++ code

```
for(int x=2;x<10)
```

```
{
```

```
x*=2.5
```

```
cout <<x%2<<" ";
```

- a. 001
- b. 010
- c. 110
- d. 100
- e. none of the above

16) ssuse all variable are propy declared .what is the output of the following c++ code?

```
Num=100
```

```
While(num<=160)
```

```
Num=num+5
```

```
Cout<<num<<endl
```

- a. 150
- b. 155
- c. 160
- d. 165
- e. none of the above

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17) suppose sum and num are int variable, and the input is 18 25 60 -11 -1. what is the output of the following code ?

```
sum=0
cin>>num
while (num!=-1)
{
sum=sum+num
cin>>num
}
cout<<sum<<endl
```

- a. 92
- b. 109
- c. 110
- d. 119
- e. none of the above

18) suppose that the input is 5 3 -6 8 what is output

```
int sum=-2
int num
int j
for (j=1;j<=5;j++)
{
cin>>num
if (num<0)
sum-=num
else
sum+=num
}
cout<<sum<<endl;
```

- a. 20
- b. 22
- c. 24
- d. 26
- e. none of the above

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Q2)

Write the c++ programe that prompt the user to read 50 integer then count how many number are odd even and zero?

```
#include <iostream>
#include <string>
using namespace std;
int main()
{
int c;
int sum;
string res;
int sum;
for(c=1;c<=50;x++)
cin>>num;
if(num%2)==0
res="even";
else if (num%2)!=0
res="odd";
else if (num==0)
res="zero";
c=c+1;
sum=sum+res;
}
```

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Q3) write the c++ code that used to evaluate the following series?

Note :(use repeat structure in your solution)

```
#include <iostream>
using namespace std;
int main()
{
int z;
int sum=0;
for(int i=1;i<=6;i++)
{
z=((i*3-1)/7+5(i-1));
sum=sum+z;
}
cout<<"the sum is"<<sum;
}
```