Model Question Paper

Overview of C++ - Part I

12th Standard

Computer Science

Reg.No. : | | | | | | |

I.Answer all the questions.

II.Use blue pen only.

Time : 00:30:00 Hrs

Total Marks : 30

Part-A

10 x 1 = 10

1) What is the range for char data type?

(a) -126 to 127 (b) 128 to -127 (c) -128 to 127 (d) -127 to 128

2) What is the minimum and maximum value stored in an integer variable?

(a) -32768 to +32767 (b) 32769 to +32767 (c) -32767 to +32767 (d) 32780 to +32767

3) Where was C++ developed?

(a) Microsoft (b) AT & T Bell (c) Quarto pro (d) Sun micro system

4) In which year was C++ developed?

(a) 1970's (b) 1990's (c) 1980's (d) 1960's

5) Which of the following is the C increment operator in C++?

(a) - - (b) * + (c) + + (d) + *

6) Who developed C++?

(a) Dennis Ritchie (b) Rick Mascitti (c) Bjarne Stroustrup (d) Don Bricklin

7) C++ was coined by whom?

(a) Dennis Ritchie (b) Rick Mascitti (c) Bjarne Stroustrup (d) Bob Franston

8) Which is an entity on which an operator acts.

(a) Variable (b) Operand (c) Operator (d) Constant

9) C++ character set is called as

(a) Variable (b) Tokens (c) Constant (d) Answers

10) The smallest individual unit in a program is

(a) Variable (b) Tokens (c) Constant (d) Key words

Part-B

10 x 2 = 20

11) What are pointer variables?

12) Write a declarative statement to declare name as a pointer variable that stores the address pointing to character data type.

13) Evaluate the following C++ expressions : Assume a=5, b=3, d=1.5, c is integer and f is float.

(a) f=a+b/a;

(b) c=d*a+b

(c) x=a++*d+a;

(d) y=a-b++*-b;

(e) (x>=y)||(!(z==y) && (z <x) where

(i).x=10, y=5, z=11(all are integers)

1

(ii)x=10, y=10, z=10

1

(iii)x=9, y=10, z=2

1

14) Write C++ equivalent expressions using conditional operator where

(i) f = 0.5, if x = 30, otherwise f = 5

f = (x == 30) ? 0.5 : 5;

(ii) fn = 0.9, if x > = 60, otherwise.7

fn = (x >=60) ? 0.9 : 7;

15) Determine the order of evaluation of the following expression : a + pow (b, c) * 2

16) Identify the errors in the following programs : (a-c)

(a) #include
```
void main( )
{
float f = 10.0;
x = 50;
cout << x << F;
}
```
Identify the error :

(b) #include
```
void main( )
{
FLOAT f = 10.0;
X = 50;
cout<< x << F;
}
```
Identify the error :

(c) #include
```
void main( )
{
int x,y,k,l;
x=y+k.....1;
cout << x;
}
```
Identify the error :

(d) #include
```
#include
int main()
{
clrscr();
int value 1, value 2;
cin>> value 1;
cin>> value 2;
cout << value 1 + value 2;
}
```
Identify the error:

(e) #include
```
void main( )
{
CIN << " \n WELCOME"
}
```

17) Predict the Output :

(a) Find output :

```
#include
#include
void main()
{
int i= 20;
cout << i << i++ <<++i;
getch();
}
```

(b) Find output :

```
#include
#include
void main()
{
clrscr();
int i= 1, a=3;
i=a++;
cout << i;
getch();
}
```

(c) Find output :

```
#include
#include
void main()
{
clrscr();
int i= 3, x;
x =i? i++ : ++i;
cout <
getch();
}
```

(d) Find output :

```
#include
#include
void main()
{
int z, x=3, y =2;
z = - -x + y++;
cout << z;
getch();
}
```

(e) Find output :

```
#include
#include
void main()
{
clrscr();
char ch = 'a';
ch = (ch = ='b')ch:'b';
cout< getch();
}
```

(f) Find output :

```
#include
#include
void main()
{
clrscr();
cout << " enter any one of the week day (1-7\n";
cout << " SUNDAY";
```

```
getch();
}
```

18) Determine the order of evaluation of the following expression: a | | b && c

19) Determine the order of evaluation of the following expression:a < b && c **| |** d > a

20) Determine the order of evaluation of the following expression:(c > =50) | | (! flag) && (b+5 == 70)

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