#### سمش ربید قعمام قیاک

برامع الساعات المعتمدة

#### **CSE122 Computer Programming**

#### Sheet 01

- 1- Identify and correct the invalid C++ statements.
  - a. float bus#1;
  - b. char ch='mxyz'
  - c. int 115LLX;
  - d. double sue's=\$155.75;
- 2- Identify and correct the invalid C++ statements.
  - a. char c='d';
  - b. char c='100';
  - c. double x=15.0;
  - d. int ah#1=\$155;
  - e. float 112ffx=100;
- 3- Which of the following is a valid C++ constant? Identify the corresponding data type.
  - a. 15
  - b. 'xyz'
  - C. '\*'
  - d. \$
  - e. 25.123
  - f. 15.0
  - g. -999
  - h. .123
  - i. 'x'
  - j. "x"
  - k. 'True'
  - I. '-5'
  - m. 32e-4



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- 4- Which of the following is a valid C++ statement? Justify your answers.
  - a. Train=Bus;
  - b. Balance=Balance-\$155.55
  - c. ++(n\*m);
- 5- Compute the following expressions if x=3, y=4, and z=5:
  - a. x>y||y< z|
  - b. x%y + z == x + z
  - c. x/y + + +z
  - d. (int)sqrt(floor(fabs(-144.45)))+(int)ceil(48.55)%7>10
  - e. (double)(x/y)+z
  - f. (double) x/y+z
  - g.  $!(y \le 2) \& x\%2 = 0$
- 6- Write a C program to compute the following formula:-

Ans= $\sqrt{b+c-2bc \cos(xr)}$ , where xr=xd\* $\pi$ /180.0, and  $\pi$ =3.14159.

- 7- Evaluate the following expressions if x=12.5, y=9.2, m=5, and n=2:
  - a. x/(float) m;
  - b. (double)(m\*n);
  - c. (float)(m/n)+y;
  - d. (double)n/m+y;
- 8- Write a program that takes the distance in feet then converts and prints it in meters, given that 1 foot = 0.3048 meter.
- 9- What is the result of the following expressions, if the values of x=10, y=5, and z=20?
  - a. A=x+y-z/2;
  - b.  $A=x^*(y\%2)$ ;
  - c. A=x++-y++;

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- d. A=--z+z--;
- e. A=--y+ ++z-y++/x++;
- 10- Write the expected output of the following program.

```
int x = 15;
int y = 2;
int z;
int z;
float r;
z = x/y;
cout<<z<<endl;
r = x/y
cout<<r<<endl;
r = x/y;
cout<<r<<endl;
cout<<r<<endl;
r = x/y;
cout<</pre>
```

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Evaluate each of the following expressions if a = 5, b = 10, c = 15 and flag is 1:

- a. c==a+b || !flag;
- b. a!=7&& flag || c>=6;
- c. !(b<=12)&&a%2==0;
- d. !(a>5||c<a+b);
- 12- Write a program that prints the ASCII code (decimal and hexadecimal value) of any given characters. (Hint: use <u>hex</u> and <u>dec</u> directives)
- 13- Write a program that generates the following table: (use the function <a href="mailto:setw()">setw()</a>)

1990 135

1991 7290

1992 11300

1993 16200