Question 1 (15 pts)

Circle True or False

- a) True False All programs must be brought into main memory before they can get executed.
- b) True or False When power is switched off, everything in the main memory is lost.
- c) True or False A bit is a binary digit, 0 or 1.
- d) True or False Compilers are programs that translate a program written in a high-level language into machine code, called object code.

```
Question 2 (25 pts)
What is displayed by this program?
#include <iostream>
using namespace std;
int main(){
int i=9/4, j=5;
double d=1.2;
string s="QUIZ1";
i++;
j+=i*i;
i=d;
i=i%4/i;
j-=i*j-i/i+j;
cout << j << 5*2 << s << endl
  << "\t\"Hello\nBye";
return 0;
}
```

## Question 3 (30 pts)

Write a complete C++ program that prompts the user to enter three numbers. The program should then display the average of the square of the numbers.

Question 4 (30 pts)

Write a complete C++ program corresponding to this simulation. We suppose that a will never be 0 and b is positive.

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SOLVING ax+b=0 \*\*\*\*\*\*\*

Enter a and b: 23.4

The solution to 2x+3.4=0 is -1.7