

1. What are the differences among Java applications, applets, and servlets? (20%)
2. Based on J2EE specifications, what are entity bean and EJB? (20%)
3. Draw execution result of the following Java application. (30%)

```
import java.awt.Graphics;  
import javax.swing.JApplet;  
public class WhileCounter extends JApplet {  
    public void paint( Graphics g )  
    {  
        super.paint( g );  
        int counter = 1;  
        while ( counter <= 10 ) {  
            g.drawLine( 10, 10, 250, counter * 10 );  
            ++counter;  
        }  
    }  
}
```

4. Write a Java application whose execution result is shown as follows. (30%)

