Q1. What is the output of the following program?

```
public class Test2 implements Runnable
{
    public static Test2 ob;
    private int data;
    public Test2()
    {
            data = 3;
    }
    public void run()
    {
            ob = new Test2();
            ob.wait();
            ob.data += 5;
            System.out.println(ob.data);
    }
    public static void main(String[] args) throws InterruptedException
    {
            Thread thread1 = new Thread(new Test2());
            Thread thread2 = new Thread(new Test1());
            thread1.start();
            thread2.start();
            System.out.printf(" HGH - ");
    }
 }
```

a) 8 HGH –
b) HGH – 8
c) HGH –
d) Compilation error

Q2. What is the output of the following program?

```
class D
{
        public void getData()
        {
                System.out.printf("D class ");
        }
}

public class Test extends D
{
        public void getData()
        {
                System.out.printf("Test class ");
                super.getData();
        }
        public static void main(String[] args)
        {
                D ob = new Test();
                ob.getData();
        }
}
```

Q3. What should be the output of the following?

```java
public class A {
    public void myMethod()

    {
    System.out.println("Method");
    }


    {
    System.out.println(" Instance Block");
    }

    public void A()
    {
    System.out.println("Constructor ");
    }
    static {
       System.out.println("static block");

    }
    public static void main(String[] args) {
    A c = new A();
    c.A();
    c.myMethod();

    }

}
```

a. Instance block, method, static block, and constructor
b. Method, constructor, instance block, and static block
c. Static block, method, instance block, and constructor
d. Static block, instance block, constructor, and method

Q4. What should be the output of the following?

```java
class G {
    public void show() {
       System.out.println("G's show()");

    }

}
class P extends G {
    public void show() {
       System.out.println("P's show()");

    }

}
class C extends P {
    public void show() {
       super.super.show();
       System.out.println("C's show()");

    }

}
public class Main {
    public static void main(String[] args) {
       C c = new C();
       c.show();

    }

}
```

a. Compiler Error in super.super.Print()
b. G's show()
   P's show()

C's show()

c. Runtime Error

d. None of the above

Q5. What is the Message is displayed in the applet made by the following Java program?

```
import java.awt.*;
import java.applet.*;
public class myapplet extends Applet
{
    public void paint(Graphics g)
    {
        g.drawString("A Simple Applet", 20, 20);
    }
}
```

a) A Simple Applet

b) A Simple Applet 20 20

c) Compilation Error

d) Runtime Error

Q6. Two threads cannot simultaneously enter into the methods of the same object if the methods are

a. static

b. synchronized

c. private

d. package

Q7. What does the following code draw?

```
g.setColor(Color.black);
g.drawLine(10, 10, 10, 50);
g.setColor(Color.RED);
g.drawRect(100, 100, 150, 150);
```

a) A red vertical line that is 40 pixels long and a red square with sides of 150 pixels

b) A black vertical line that is 40 pixels long and a red square with sides of 150 pixels

c) A black vertical line that is 50 pixels long and a red square with sides of 150 pixels

d) A red vertical line that is 50 pixels long and a red square with sides of 150 pixels

Q8. Which of the following is true?

1) wait(), notify(), notifyAll() are defined as final & can be called only from within a synchronized method.

2) Among wait(), notify(), notifyAll(), the wait() method only throws IOException.

3) wait(), notify(), notifyAll() & sleep() are methods of object class.

a) Only 1

b) 2 and 3

c) 1 and 2

d) 1, 2, and 3

Q9. Which of the following is true about the Error and Exception classes?

a) Both classes extend Throwable.

b) The Error class is final and the Exception class is not.

c) The Exception class is final and the Error is not.

d) Both classes implement Throwable.

Q10. Which of the following statements are true?

a) The default layout manager for an Applet is FlowLayout

b) The default layout manager for an application is FlowLayout

c) A layout manager must be assigned to an Applet before the setSize method is called

d) The FlowLayout manager attempts to honor the preferred size of any components

Q11. Method are used to register a keyboard event listener.

a. KeyListener()

b. addKistener()

c. addKeyListener()

d. eventKeyboardListener()

Q12. What will be output for the following code?

```
import java.io.*;
class files
{
    public static void main(String args[])
    {
        File obj = new File(""/java/system"");
        System.out.print(obj.getName());
    }
}
```

a.java

b. system

c. java/system

d. /java/system

Q13. The ActionListener interface is used for handling action events, for example, it's used by a

a) JButton

b) JCheckbox

c) JMenuItem

d) All of these

Q14. What tags are mandatory when creating HTML to display an applet

a) name, height, width

b) code, name

c) codebase, height, width

d) code, height, width

Q15. Which of these functions is called to display the output of an applet?

a) display()

b) paint()

c) displayApplet()

d) PrintApplet()

Q16. Which one method is used to set the visibility of the frame?

a. setVisible(true)

b. setVisible(false)

c. setVisible()

d. None

Q17. Which is the container that doesn't contain title bar and MenuBars but it can have other components like button, textfield etc?

a. Window

b. Frame

c. Panel

d. Container

Q18. The Following steps are required to perform

1) Implement the Listener interface and overrides its methods

2) Register the component with the Listener

a. Exception Handling

b. String Handling

c. Event Handling

d. None of the above

Q19. Which are passive controls that do not support any interaction with the user?

a. Choice

b. List

c. Labels

d. Checkbox

Q20. Which of these events is generated when the window is closed?

a) TextEvent

b) MouseEvent

c) FocusEvent

d) WindowEvent