

Subject:- Java Programming

Time: One Hour

Max. Marks: 30

Note: All questions are compulsory. Each question carries 5 marks.

Q 1. The following program has several errors. Modify the program so that it will compile and run without errors.

```
// Filename: Temperature.java

PUBLIC CLASS temperature {

    PUBLIC void main(string args) {

        double fahrenheit = 62.5;

        /* Convert */

        double celsius = f2c(fahrenheit);

        System.out.println(fahrenheit + 'F' + " = " + Celsius + 'C');

    }

    double f2c(float fahr) {

        RETURN (fahr - 32) * 5 / 9;

    }

}
```

Q 2. Discuss the method calling mechanism for overloading and overriding.

Q 3. Discuss the advantages of abstract classes over interfaces and vice versa.

Q 4. Discuss **this** and **super** constructor calling for method overloading and overriding.

Q 5. Explain the basic concepts of Object-Oriented Programming languages with the help of examples.

Q 6. Explain different uses of **static** and **final** keywords with examples.