

School of Computing Science and Engineering

B.Tech CSE
ETE - Jun 2023

Time : 3 Hours

Marks : 50

Sem II - MSCS1240 - JAVA Programming

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1. What is .class file? How is it created? K2 CO2 (2)
,CO1
2. Explain following methods in Java
a) charAt() b) toLowerCase() K3 CO3 (2)
3. What do you understand by a constructor in java? K1 CO2 (2)
4. Demonstrate the use of 'implements' keyword in java. K4 CO4 (2)
,CO3
5. Analyze the following code and predict the output K4 CO2 (2)

```
public class Test {  
    public static void main(String args[]){  
        String p1 = "Object";  
        String p2 = "Programming";  
        p1 ="Oriented"+"Language";  
        p2=p1+p2;  
        p2.concat(p1);  
        System.out.println(p1);  
        System.out.println(p2); }  
}
```
6. Write a program to create an interface named Interest which contains simpleInterest method and static final field of Rate 25%. Write a class to implement the method. K3 CO4 (5)
,CO5
7. Demonstrate String immutability in String class using appropriate example. K6 CO5 (6)
,CO4
8. Elaborate the common methods used for controlling a thread's states. K4 CO4 (5)
,CO5
9. What is a Stream? Explain various Stream classes in Java. K5 CO4 (8)
,CO6
,CO5
10. Explain any four methods of StringBuffer class to handle strings using examples. K4 CO4 (8)
,CO3
,CO5
11. Compare String, StringBuffer and StringBuider classes in java. K5 CO4 (8)
,CO5
,CO6