K.L.S.’s Shri Vasantrao Potdar Polytechnic, Belgaum

**Department of Computer Science**

**EVENSEM 2021-22**

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**Sem: IV Sub: Object Oriented Programming With Java/20CS43P**

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| **Sl.No** | **Date** | **Problem Definition** | **Page No.** | **Marks** | **Sign** |
|  |  |  |  |  |  |
| 1 |  | Install and setup java environment. Installation of Java Editor  “Eclipse for Enterprise JAVA” and configuring workspace. |  |  |  |
| 2 |  | Write a Program to display the message on screen. |  |  |  |
| 3 |  | Write a Java Program to demonstrate types of variables and data types in JAVA |  |  |  |
| 4 |  | Write a Program to demonstrate types of constructors for expression evaluation |  |  |  |
| 5 |  | Write a Program to demonstrate autoboxing and unboxing |  |  |  |
| 6 |  | Install memory monitoring tool and observe how JVM allocates memory using  VisualVM tool |  |  |  |
| 7 |  | Write a Program to demonstrate if-else if-else structure to find out result of student |  |  |  |
| 8 |  | Write a Program to find n fibonacci terms and factorial of n. |  |  |  |
| 9 |  | Write a Program to demonstrate encapsulation in JAVA |  |  |  |
| 10 |  | Write a Program to design text processing application and check compliance with SRP |  |  |  |
| 11 |  | Write a Program to find maximum and minimum number in given array elements |  |  |  |
| 12 |  | Write a Program to perform string manipulation using string methods. |  |  |  |
| 13 |  | Write a Program to demonstrate single inheritance |  |  |  |
| 14 |  | Write a Program to demonstrate multilevel inheritance |  |  |  |
| 15 |  | Write a Program to demonstrate static binding or compile time polymorphism |  |  |  |
| 16 |  | Write a Program to demonstrate dynamic binding or run time polymorphism |  |  |  |
| 17 |  | Write a Program to demonstrate abstract class to achieve abstraction |  |  |  |
| 18 |  | Write a Program to demonstrate interfaces to achieve abstraction |  |  |  |
| 19 |  | Write a Program to read contents of the file and write to another file |  |  |  |
| 20 |  | Write a Program to demonstrate checked and unchecked exception. |  |  |  |
| 21 |  | Write a Program to design and implement interface that build different types of toys in compliance  with ISP |  |  |  |
| 22 |  | Write a Program to connect to mysql database using JDBC and perform basic database operations |  |  |  |
| **Average Marks** | | | |  |  |