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**Presidency University**

**Bengaluru**

**SCHOOL OF CSE & IS**

**Make-Up Examinations, July 2024**

**Semester**:

**Course Code**: CSE1001

**Course Name**: Problem Solving using JAVA

**Program & Sem**: B.Tech & II Sem

**Date**: 19/July /2024

**Time**: 9:30 PM – 12:30 PM

**Max Marks**: 100

**Weightage**: 50%

 **Instructions:**

1. *Read the all questions carefully and answer accordingly.*
2. *Do not write any matter on the question paper other than roll number.*

**Part A [Memory Recall Questions]**

**Answer all the Questions. Each question carries five marks. (4Qx 5M= 20M)**

1. Explain the basic concepts of Object-Oriented Programming in Java. [CO1, Knowledge]

2. Explain briefly class, public, static, void, main, string[] and system.out.println() key words. [CO1, Knowledge]

3. Riya wants to write an application to check a person can vote if age is greater than or equal to 18 by taking user input (Scanner class) [CO2, Application]

4. Write a short note on arrays and a Java Program to print the elements of Java array using the for-each loop. [CO3, Knowledge]

**Part B [Thought Provoking Questions]**

**Answer all the Questions. Each question carries 10 marks. (5Qx10M=50M)**

5. List out the looping statements available in Java. Explain with example [CO1, Comprehension]

6. Write short notes on method overloading with an example. [CO2, Comprehension]

7. Explain constructor. List its special properties with an example. [CO2, Comprehension]

8. Describe about Strings in Java. How can you make a String upper case or lower case in Java? [C03, Comprehension]

9.What is exception handling? Explain an example of exception handling in the case of division by zero. [CO5, Comprehension]

**Part C [Problem Solving Questions]**

**Answer all the Questions. Each question carries 15 marks. (2Qx15M=30M)**

10. Accept the name and marks obtained by a student in JAVA Project. Display the grades as per the table given below: [CO2, Application]

 Marks obtained Grade

80% or more A

60% or more but less than 80% B

40% or more but less than 60% C

Less than 40% No Grade

11. Briefly explain about inheritance and its types. How do we achieve code reusability in Java using inheritance. Explain with an example of single inheritance. [CO4, Comprehension]