

**MVR COLLEGE OF ENGINEERING AND TECHNOLOGY :AUTONOMOUS**

II B.Tech I Semester Regular Examinations : February 2023

**OBJECT ORIENTED PROGRAMMING WITH JAVA**

(Branch(s): CSE(AI),AI&amp;DS )

Time :3 hours

Max.Marks:70

**Answer any five Questions one Question from Each Unit****All Questions Carry Equal Marks****UNIT -I**

- 1 A) What are the data types in java? Write a java program to print six of basic data types? What is the difference between "int" data type in Java and C programming languages? 7M
- B) Explain various control structures used in JAVA with suitable examples. 7M

**OR**

- 2 A) I. Describe the structure of a typical Java program with an example. 3M  
II. Write the significance of Java Virtual Machine. 4M
- B) Explain the features of Object-Oriented Programming Languages in detail? 7M

**UNIT -II**

- 3 A) How the keyword 'final' can be used to prevent overriding? Explain with an example. 7M
- B) Write about class, object, methods, constructor and destructor. 7M

**OR**

- 4 A) What is Overloading? Explain Constructor overloading with an example? 7M
- B) Write java program to demonstrate about Passing Arguments by Value and by Reference? 7M

**UNIT -III**

- 5 A) I. What do you understand by super key word? Write use of super key word. 3M  
II. Differentiate between Interface and Abstract class. When Interface is preferred over Abstract class. 4M
- B) What is an array? How do you declare the array in java? Give examples. 7M

**OR**

- 6 A) Define inheritance with diagrammatic illustration and java programs to illustrate the different types of inheritance with an example. 7M
- B) Write the Java program to create anonymous objects using an Interface. 7M

**UNIT -IV**

- 7 A) What is the difference between Auto-boxing and Auto-unboxing? Give an example for java program for it? 7M
- B) What is exception? How to create a user defined exception in java? 7M

**OR**

- 8 A) What is a checked and unchecked exception? List all checked and unchecked exceptions in java? 7M
- B) What is enumeration explain with example? What are the uses of enumeration? 7M

**UNIT -V**

- 9 A) Explain the difference between String, String Buffer and String Builder classes? 7M
- B) Write a JDBC program to search for an attribute in a table and display the entire tuple to the user. For example, display all the details of the student given his/her roll number. 7M

**OR**

- 10 A) Explain any five swing components with an example? What is the difference between "Button" and "JButton" Classes. 7M
- B) Create a Bank Application program to illustrate the use of multithreading. 7M