

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, APRIL – 2023**

NETWORK PROGRAMMING

[Maximum Marks: **100**]

[Time: **3 Hours**]

PART-A

[Maximum Marks: **10**]

I. (Answer **all** questions in one or two sentences. Each question carries **2** marks)

1. Define byte code.
2. List two types of constructors in JAVA.
3. Write any 2 methods to create a thread in JAVA.
4. Write the syntax of a typical URL.
5. Define remote object.

(5 x 2 = 10)

PART-B

[Maximum Marks: **30**]

II. (Answer **any five** of the following questions. Each question carries **6** marks)

1. Write the basic structure of a Java program.
2. Write a Java program to store a set of numbers into an array and print the array along with the sum of numbers stored in it.
3. Explain the use of try..catch block in Java.
4. Write a JAVA program to copy the contents of a file into another file.
5. List any three constructors of a Java URL class.
6. Write the steps to be followed to create a new remote object.
7. Explain about ports and port numbers.

(5 x 6 = 30)

PART-C

[Maximum Marks: **60**]

(Answer **one** full question from each Unit. Each full question carries **15** marks)

UNIT – I

- III. a. Compare class and interface with respect to JAVA. (6)
- b. With example explain any 3 loops in JAVA. (9)

OR

- IV. a. Explain method overloading in JAVA with an example. (6)
b. Write the steps to create and accessing a package in Java. (9)

UNIT – II

- V. a. Compare Java awt & swing. (6)
b. Write a Java swing program to input two numbers through text boxes and display its sum on another text box when user hits on a button. (9)

OR

- VI. a. Explain the life cycle of a thread. (6)
b. Write a multithreaded program with at least three threads in it. (9)

UNIT- III

- VII. a. List the basic functions of a socket. (6)
b. Write a TPC server program that listens at port 8100 for reading an integer from a client and send back its reverse to the client. (9)

OR

- VIII. a. Compare TCP & UDP sockets with respect to Java. (6)
b. Write a TPC client program that sends a request to a server at port 8100 for getting the reverse of a number. (9)

UNIT - IV

- IX. a. Explain RMI architecture. (9)
b. List the security features of Java. (6)

OR

- X. a. Write an RMI program to find largest from two numbers. (12)
b. List the Java packages required to implement RMI. (3)
