

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2018

**NETWORK PROGRAMMING**

[Time : 3 hours

(Maximum marks : 100)

**PART — A**

(Maximum marks : 10)

Marks

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

1. Define Java Byte code.
2. Write the syntax for creating a package book.
3. Write the methods of getting protocol and port of a URL class.
4. Define RMI.
5. Explain AWT.

(5 × 2 = 10)

**PART — B**

(Maximum marks : 30)

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

1. List and explain any four control structures used in Java.
2. Describe the concept of method overloading with example.
3. Explain multithreading in Java.
4. Define applet and write an applet program to find the reverse of a number using label, textbox and button.
5. Explain the creation of URL object with example.
6. Describe the creation of TCP sockets.
7. Explain the creation of remote class and interfaces in Java.

(5 × 6 = 30)

## PART — C

(Maximum marks : 60)

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

## UNIT — I

- III (a) Explain parameterized constructors in Java with an example. 8  
 (b) Describe the features of Java. 7

OR

- IV (a) Explain Inheritance in java with an example. 8  
 (b) Explain the concept of implementing Interfaces. 7

## UNIT — II

- V (a) Explain Exception handling mechanism in Java with example. 8  
 (b) Explain the life cycle of a thread. 7

OR

- VI (a) Explain stream classes used in java. 9  
 (b) State any four swing components in Java and its use. 6

## UNIT — III

- VII (a) Write the components of URL and State various URL constructors and its syntax. 9  
 (b) Differentiate absolute and relative URL. 6

OR

- VIII (a) Write a TCP based Server socket program to establish a connection with a client program. 8  
 (b) Explain Datagram socket class and Datagram packet with an example. 7

## UNIT — IV

- IX (a) Explain the steps needed for developing RMI systems. 8  
 (b) Write the procedure to start an RMI server. 7

OR

- X (a) Write a Java RMI program to find product of two numbers. 8  
 (b) Java is highly secure for network applications. Justify. 7

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