

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 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. What are Distributed Systems ?
2. List two important APIs that java supports for creating graphical user interfaces.
3. Give the format of the URL.
4. Define a socket.
5. What is java RMI ?

(5 × 2 = 10)

PART — B

(Maximum marks : 30)

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

1. Describe about two types of network interfaces.
2. Explain about applet List and describe different methods in Applet class.
3. Distinguish between absolute and relative URLs.
4. List any six AWT controls.
5. List four constructors in the java.net. URL class with syntax.
6. Draw and explain TCP header.
7. Explain the architecture of java RMI.

(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 about UDP. 10
 (b) Describe different classes Ipv4. 5

OR

- IV (a) Explain Client- Server model of computer networks. 10
 (b) Describe advantages and disadvantages of distributed systems. 5

UNIT — II

- V List and describe various constructors and methods used for implementing Radio buttons in java swing. 15

OR

- VI List and describe different java layout managers. List the one which is default layout manager. 15

UNIT — III

- VII (a) Describe the basic operations that a socket can perform. 7
 (b) Write down the procedure for creating TCP server sided sockets. 8

OR

- VIII (a) Describe the need of java classes “DatagramSocket” and “DatagramPacket” in implementing UDP socket programs. 8
 (b) Write down the procedure for creating TCP client sided sockets. 7

UNIT — IV

- IX Implement a rmi based application that can perform addition of two numbers. 15

OR

- X Describe java security model. 15