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(Revision – 2015)

N21 – 09160

Reg. No……
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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE, NOVEMBER – 2021

NETWORK PROGRAMMING

[Maximum Marks: **75**] [Time: **2.15** Hours]

PART-A

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

I. 1. Define bytecode.
2. List any two AWT container classes.
3. Define socket.
4. State the term marshalling in RMI.
5. Mention the use of Naming.rebind method. (3 x 2 = 6)

PART-B

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

II. 1. Define the object in JAVA. Explain its characteristics.
2. Differentiate between method overloading and overriding.
3. Explain the life cycle of a thread.
4. Describe how to create and execute an applet program with an example.
5. Explain the four methods of URL class.
6. Compare TCP and UDP sockets.
7. Define stub. Also write the functionalities of stub in RMI. (4 x 6 = 24)

PART-C

(Answer ***any of the three units*** from the following. Each full question carries ***15*** marks)

UNIT – I

III. (a) Explain how to create and access packages in JAVA with example. (9)
(b) List any four features of Interface in JAVA. Also write the syntax for declaring Interfaces. (6)

OR

IV. (a) Explain the six features of JAVA programming language. (9)
(b) Differentiate between abstract class and final class in JAVA. (6)

UNIT - II

V. (a) Explain how to create threads in JAVA using Thread class. Also write an example. (9)

(b) Describe exception handling mechanism in JAVA. (6)

OR

VI. (a) Develop JAVA program to find the factorial of a number using swing components. (9)

(b) Describe various byte stream class in JAVA and list its methods. (6)

UNIT- III

VII. (a) Explain the procedure to create a client –server program using TCP sockets. (9)

(b) Describe any six methods of Socket class. (6)

OR

VIII. (a) Write a socket program using UDP to send and receive data. (9)

(b) Illustrate the procedure for connection establishment through sockets. (6)

UNIT - IV

IX. (a) Explain the steps to develop an RMI program. (9)

(b) Describe the security architecture of JAVA with the help of a diagram. (6)

OR

X. (a) Write an RMI program to find the product of two numbers. (12)

(b) Describe the main components of RMI architecture. (3)

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