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(Revision – 2015)

N22 - 08263

Reg.No……..
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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE – NOVEMBER – 2022

NETWORK PROGRAMMING

(Maximum Marks : 100) (Time : 3 hours)

PART – A
(Maximum Marks : 10)

Marks

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

1. Define super class in java.
2. Name two java APIs used for graphics programming.
3. Name different categories of URL.
4. Define the term marshalling in RMI.
5. State the need of object registry in an RMI system. (5x2=10)

PART –B
(Maximum Marks : 30)

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

1. Differentiate class and interface in java.
2. Define and describe method overloading with examples.
3. Discuss multiple catch and finally statements with an example.
4. Write a note on stream concepts in java.
5. Describe various URL class constructors.
6. Explain the java method to create a datagram packet with an example.
7. Describe the steps to create a remote class in RMI system.

(5x6=30)

PART – C

(Maximum Marks : 60)

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

UNIT – I

III. (a) Define inheritance and explain different visibility controls in java. (8)

(b) Describe abstract and final methods in java with examples. (7)

OR

IV. (a) Illustrate the implementation of multiple inheritance in java with an example. (8)

(b) Explain the features of java. (7)

UNIT – II

V. (a) Write a note on any four swing components and its constructors. (8)

(b) Explain basic methods in java applet class. (7)

OR

VI. (a) Describe the state transition of a thread with a neat diagram. (8)

(b) Discuss event handling in java. (7)

UNIT –III

VII. (a) Describe the steps for creating a simple client and server program in java. (8)

(b) Describe different URL class methods in java. (7)

OR

VIII. (a) Develop a TCP based server program that accepts a sentence from client and returns number of vowels in it. (8)

(b) Discuss the need of sockets and compare TCP, UDP sockets. (7)

UNIT – IV

IX. (a) Explain RMI architecture with a neat diagram. (8)

(b) Explain the security features in java. (7)

OR

X. Discuss the steps for developing an RMI system. (15)

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