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(Revision-2015)

N19- 03262

Reg.No.....
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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, OCTOBER/NOVEMBER-2019

PROGRAMMING IN JAVA

[Maximum marks: 100]

(Time: 3 Hours)

PART – A

[Maximum marks: 10]

(Answer all questions in one or two sentences, Each question carries 2 marks)

- I. (1). List any four relational operators in Java.
(2). Define inner class.
(3). What is the use of an adapter class in Java.
(4). Name the command used to run an applet.
(5). List the states in an applet life cycle.

(5 x 2 = 10)

PART – B

[Maximum marks: 30]

(Answer any *five* of the following questions, Each question carries six marks)

- II. (1). List and explain any four features of Java.
(2). Explain static class in Java with an example.
(3). Write note on final method.
(4). Describe the concept of base class and derived class.
(5). Write a program to demonstrate the implementation of keyboard events.
(6). Discuss about SWING and its components.
(7). Explain the various attributes of applet tags.

(5 x 6=30)

PART – C

[Maximum marks: 60]

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

UNIT –I

- III. (a). Describe the various data types in Java. (8)
(b). Write a Java program to find a number of even and odd integers in a given array of integers. (7)

OR

- IV. (a). Illustrate the control statement in Java. (8)
(b). Develop a Java program using class and objects to count the digits of a number (7)

UNIT-II

- V. (a). Describe the different types of inheritance in Java. (8)
(b). Create a package containing a class to store student record (Roll.No, Name & 3 marks) write a method to display the details. (7).

OR

- VI. (a). Discuss about the implementation of interfaces with an example. (8)
(b). Illustrate how an exception raised due to an illegal number format is handled in Java. (7)

UNIT-III

- VII. (a). Describe about AWT and components. (8)
(b). Discuss on JDK event model. (7)

OR

- VIII. (a). Explain the Layout managers of AWT. (8)
(b). How is event handling implemented in Java. (7)

UNIT-IV

- IX. (a). Describe Inter-applet communication. (8)
(b). Write an applet program to display sum of two numbers of TextField. (7)

OR

- X. (a). Differentiate between applets and standalone applications. (8)
(b). Illustrate the security features of applets. (7)