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Total number of printed pages – 2

B. Tech
PCIT 4303

Fifth Semester Regular Examination – 2014

JAVA PROGRAMMING

BRANCH(S) : CSE, IT

QUESTION CODE : H 167

Full Marks – 70

Time : 3 Hours



Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

1. Answer the following questions : 2 × 10
 - (a) Why is Java platform independent ?
 - (b) What do you mean by auto initialization ?
 - (c) What is the purpose of "final" keyword ?
 - (d) What is an abstract class ? Write the significance of using abstract classes.
 - (e) What is the difference between a class and an interface ?
 - (f) Which java.util classes and interfaces support event handling ?
 - (g) Differentiate between Byte streams and character streams.
 - (h) What are the two ways of creating a thread ?
 - (i) What is meant by reflection ?
 - (j) Differentiate between shallow and deep copy in object cloning.
2. (a) What are access specifiers? Discuss them in context of java. 5
(b) What do you mean by dynamic binding ? Explain with a suitable example. 5
3. (a) With suitable examples, explain how packages can be created, imported and used in java. Also elaborate on its scope. 5
(b) How are exceptions handled in java ? Elaborate with suitable examples. 5

P.T.O.

4. Explain about Applet life cycle. Discuss how applets are prepared and executed. Write a program in java to move a ball from left to right. Write the html code to embed the applet in it. 10
5. (a) Define thread. With illustrations, explain multithreading, interrupting threads, thread states and thread properties. 5
 (b) What is the importance of "this" in java ? Write a program in java to explain the use of "this" as a method call. 5
6. (a) Write a program in java to create a frame with following menus, such that the corresponding geometric object is created when a menu is clicked : 5
 (i) Circle
 (ii) Line
 (iii) Rectangle.
 (b) What is RMI ? Explain its use with suitable example. 5
7. What is JDBC ? Write a program in java using type I driver to connect a java frame with Oracle database. Extract the data of a table present in the database and display the records in the text fields present in a frame when the show button is clicked as shown below. 10

STUDENT DATABASE	
ROLL	<input type="text"/>
NAME	<input type="text"/>
CITY	<input type="text"/>
<input type="button" value="SHOW"/>	

8. Explain the following terms in brief : 2.5×4
 (a) Adapter class
 (b) Layout Managers
 (c) Runnable interface
 (d) Super.