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Total number of printed pages – 2

B. Tech
PCIT 4303

Fifth Semester (Back/Special) Examination – 2013

JAVA PROGRAMMING

BRANCH : CSE, IT

QUESTION CODE : D 288

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) Define a literal. List the literals supported by java.
 - (b) Differentiate among final, finally and finalize ().
 - (c) Define abstract class. How is it useful in java ?
 - (d) Differentiate between String and StringBuffer classes.
 - (e) How synchronization is achieved in a multithreaded program ?
 - (f) How algorithm and iterator are used in collection framework ?
 - (g) How client and server sockets are created ?
 - (h) Differentiate between byte stream and character stream.
 - (i) How parameters are passed on to an applet ?
 - (j) Define and give an example of adapter class.
2. (a) Define inheritance. What are the types of inheritance supported by Java ?
Explain with neat diagrams. 5
- (b) Define an interface. How is it useful in implementing multiple inheritance ?
5

P.T.O.

3. (a) Define a package. How to create a user defined package ? 5
(b) How interthread messaging is carried out ? Explain with an example. 5
4. (a) Write down a java applet to display the message "JAVA IS A OBJECT ORIENTED LANGUAGE" on a browser. 5
(b) Discuss the Java error handling mechanism. What is the difference between unchecked exceptions and checked exceptions. 5
5. (a) Draw a neat diagram and explain the life-cycle methods of a thread. 5
(b) What is a socket ? How do you facilitate interprocess communication in Java ? 5
6. (a) Define RMI. What are the layers of RMI architecture. Explain. 5
(b) Write down a java program to create a Frame window in an applet. 5
7. (a) List java buzz words and explain. 5
(b) Differentiate between AWT and swing. 5
8. Write short notes on any **two** of the following : 5×2
(a) Java Collection Framework
(b) Layout Managers
(c) Cloning
(d) JDBC.

