C U SHAH UNIVERSITY
Summer Examination – 2015

Branch: CE & IT   Semester: IV – (B. Tech)

Subject Code: 4TE04OPJ1   Subject Name: Object oriented Programming with Java

Section - I

Q-1) Answer the following. (7 Marks)

1. Explain any method of Math class
2. Differentiate class and object
3. What is Package?
4. What is Thread?
5. Define Exception.
6. What is Thread Synchronization?
7. What is Applet?

Q-2) Answer the following.
   A. Explain types of operators. (5 Marks)
   B. Write a Java program to calculate area of circle. (5 Marks)
   C. What is constructor? Explain it with suitable example. (4 Marks)

OR

Q-2) Answer the following.
   A. Explain method overloading with suitable example. (5 Marks)
   B. Write a Java program to find area of rectangle. (5 Marks)
   C. What is Finalizer? Explain it with suitable example. (4 Marks)

Q-3) Answer the following.

   A. What is Abstract class? Explain it with suitable example. (5 Marks)
   B. What is Polymorphism? Write a Java program to demonstrate it. (5 Marks)
   C. Explain Thread life cycle (4 Marks)

OR

Q-3) Answer the following.

   A. What is Interface? Explain it with suitable example. (5 Marks)
   B. Write a Java program to implement and use of user defined Package. (5 Marks)
   C. How to solve producer – consumer problem using thread? (4 Marks)

Section - II

Q-4) Answer the following. (7 Marks)

1. What is garbage collection in the context of Java?
2. What is the default buffer size used by any buffered class?
3. What is Adapter class?
4. Explain use of border layout.

5. Explain use of flow layout.
6. Explain use of Grid layout.
7. What is Panel.

Q-5) Answer the following.
   A. Write a Java program to handle DivideByZero exception. (5 Marks)
   B. Write a Java program to use ArrayList. (5 Marks)
   C. Write a Java program to use GregorianCalendar. (4 Marks)

OR

Q-5) Answer the following.
   A. Write a Java program to handle ArrayIndexOutOfBounds exception. (5 Marks)
   B. Write a Java program to use LinkedList. (5 Marks)
   C. Write a Java program to use PriorityQueue. (4 Marks)

Q-6) Answer the following.

   A. Explain Anonymous class with relevant example. (5 Marks)
   B. Write a GUI program to demonstrate use of RadioButton. (5 Marks)
   C. Write a GUI program to demonstrate use of TextField. (4 Marks)

OR

Q-6) Answer the following.

   A. Explain Inner class with relevant example. (5 Marks)
   B. Write a GUI program to demonstrate use of CheckBox. (5 Marks)
   C. Write a GUI program to demonstrate use of Menu. (4 Marks)