

ALCCS – NEW SCHEME

Time: 3 Hours

FEBRUARY 2013

Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE:

- Question 1 is compulsory and carries 28 marks. Answer any FOUR questions from the rest. Marks are indicated against each question.
- Parts of a question should be answered at the same place.

- Q.1**
- a. What are Adapter classes?
 - b. What is multithreading? What are the two different ways to create multithreaded program?
 - c. What is the difference among final, finally and finalize?
 - d. Discuss each part of the following statement:
System.out.println();
 - e. How does Java implement platform independence?
 - f. What is the difference between an instance member and a class member?
 - g. What is JAR? Write few options used with JAR. (7 × 4)
- Q.2**
- a. What is polymorphism? Differentiate between compile time and runtime polymorphism with the help of complete java program. (3+3+3)
 - b. What is the role of garbage collection? (3)
 - c. What are packages? Explain the steps to create packages. (6)
- Q.3**
- a. What is the difference between character based and byte based IO streams? Discuss different types of character and byte based streams. (3+6)
 - b. Write a program to input three integers through keyboard and print the largest among them? (9)
- Q.4**
- a. Write a program to create a window and set its title with “IETE” using AWT. (6)
 - b. What is inheritance? How will you call parameterized constructor and overriden method from parent class in sub class? (2+7)

- c. What are the advantages of Object Oriented Programming? (3)
- Q.5** a. What is Layout managers? Discuss different types of layout managers used in JAVA. (2+7)
- b. What is Servlet? Create a Servlet program to print "Hello Java". (2+7)
- Q.6** a. What is synchronization? Write a program to demonstrate synchronization. (2+7)
- b. What is event handling? Discuss different types of event handling classes and event handling interfaces. (3+3+3)
- Q.7** a. What are the differences between caught and uncaught exception? Write a program to create user defined exception. (3+6)
- b. What are software components? What are the different types of java bean properties? (2+7)