

ALCCS – NEW SCHEME

Time: 3 Hours

AUGUST 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**
- Explain the main features of OOPS.
 - How do java programs maintain platform independency with the help of JVM?
 - Explain the major differences between an array and a vector.
 - What is the difference between sleep and suspend?
 - Explain the life cycle of an Applet.
 - Discuss the InetAddress class of java.net package and also its methods.
 - What is HTTP Servlet? Explain all methods of HTTP Servlet class. (7 × 4)
- Q.2**
- Write a program using while loop to reverse the digits of a given number. For eg. The number 5894 should be written as 4985. (9)
 - Given are two one dimensional arrays A and B which are sorted in ascending order. Write a program to merge them into a single sorted array C that contains every item from arrays A and B, in ascending order. (9)
- Q.3**
- Explain the advantages of using interfaces in Java? How they are different from Abstract Classes. (9)
 - What is method overloading & Method overriding with suitable example? Can you overload operators in java? (9)
- Q.4**
- Discuss the various levels of access protection available for packages and their implications. What is static import? (9)
 - What is the difference between multiprocessing and multithreading? What is to be done to implement these in a program? (9)

Code: CT21**Subject: OOPS USING JAVA**

- Q.5** a. What do you mean by exception? How are they handled in Java? Explain try-catch-finally block with an example. (9)
- b. Explain the access modifiers (private, public, protected and default) used in inheriting the classes in JAVA. (9)
- Q.6** a. What is a “finally” block? When and how is it used? Give a suitable example. (9)
- b. Write a Java program to copy one file to another file with the help of byte stream classes. (9)
- Q.7** a. Explain the drawPolygon() method of Polygon class with the help of an example. (9)
- b. Explain three UI components of swing and their classes and constructors. (9)