ROLL NO.	

Code: CT21 Subject: OOP USING JAVA

ALCCS

Time: 3 Hours

FEBRUARY 2014

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 the differences between C++ and JAVA?
 - b. Write a JAVA program to find the first m numbers of the Fibonacci series.
 - c. What is method overloading in JAVA? Give an example to explain.
 - d. Distinguish between interfaces and abstract classes.
 - e. What is the role of the keyword "throw" & "throws" in exception handling? What is the difference between checked and unchecked exceptions?
 - f. List the four levels of controlling access to variables, methods and classes in JAVA.
 - g. With an example show how values can be passed to applets? (7×4)
- Q.2 a. What is type casting in JAVA? Explain its various types with suitable examples. (9)
 - b. Write a simple program that finds the largest of two numbers where the two numbers are read from the keyboard. (9)
- Q.3 a. What is the order of calling constructors in JAVA? (5)
 - b. Explain different access specifiers in JAVA? (5)
 - c. Explain the following with an example:- (8)
 - i. Final data member.
 - ii. Final method.
 - iii. Final class.
 - iv. Final object.
- Q.4 a. Why do we use import statement? (8)

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	b. Write a java program to show how interfaces can be extended in Java?	(10)
Q.5	a. List some common java exceptions and explain.	(9)
	b. Give an example of a program in java to show how you can create your own exception classes?	(9)
Q.6	 a. What do the following methods do:- i) wait(). ii) notify(). iii) notifyAll(). 	(9)
	b. Differentiate between Applications and Applets.	(9)
Q.7	Q.7 a. Write a JAVA program to create three simple sliders—plain slider, slider with marks and a third one with both tick marks and sliders.	
	b. Show with an example program how inheritance is supported by beans.	(9)