

BACHELOR IN COMPUTER APPLICATIONS

Term-End Examination

June, 2008

CS-74 : INTRODUCTION TO INTERNET PROGRAMMING

Time : 3 hours

Maximum Marks : 75

Note :

- (i) Question number 1 is compulsory.
- (ii) Attempt any three questions from the rest.
- (iii) Use Java as programming language.

-
1. (a) Explain the following keywords with example (any four) : 4x3=12
 - (i) this
 - (ii) throw
 - (iii) super
 - (iv) protected
 - (v) transient
 - (b) Create a class named "Employee" with fields : "Employee Name", "Age", "Address". Using the concept of serialization, store and retrieve the states of "Employee" object. 8
 - (c) Explain the different access specifiers and their scope. 5

- (d) Explain the event delegation model in AWT. What are the components of an event ? 5
2. (a) Explain the concept of method over-riding. Can we over-ride method within the same class ? Explain. 5
- (b) What is inheritance ? Explain with an example. 5
- (c) Write a program in Java that inputs a natural number and displays whether or not that number is prime. 5
3. (a) What is a stream ? Write a program that reads the contents of a file and writes it into another file. 8
- (b) What is a thread ? Explain different methods of thread class. 7
4. (a) What is a static method ? Why can't a static method use 'this' and 'super' ? Explain with example. 7
- (b) Explain any four features of Java. 8
5. (a) Create a Java applet with a button "Display". On click of button it should display Rectangle, Oval and Circle within the Applet. 8
- (b) What are wrapper classes ? Why are they used ? 3
- (c) Explain the concept of an interface. What is scope and nature of variables and methods defined in an interface ? 4