

BACHELOR OF COMPUTER APPLICATIONS

(PRE - REVISED)

Term-End Examination

December, 2012

**CS- 74 : INTRODUCTION TO INTERNET
PROGRAMMING**

Time : 2 hours

Maximum Marks : 60

Note : Question No. 1 is compulsory. Attempt any two questions from the rest.

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1. (a) Explain any five Java basic features briefly. 5
 - (b) What is a constructor ? Write a java program to implement a Rectangle class that has constructors with 0, 1 or 2 parameters. 6
 - (c) What is a Thread ? Explain various states of a thread with the help of a suitable diagram. 6
 - (d) What is an event in GUI programming ? Write a program to print "Key Pressed" whenever a key is pressed on the keyboard. 7
 - (e) What is inheritance ? Write the declarations for the classes and methods of a hierarchy consisting of vehicle, car and petrol car. 6
 2. (a) What is interface? Differentiate between interfaces and abstract classes with the help of an example. 6

- (b) What is an exception ? Explain with an example how multiple exceptions are handled in Java. If there are multiple catch clauses, which one is called ? Also explain the use of finally in exception handling. 9
3. (a) Write a Java program which read the contents of a file and display it on screen with each line appearing in reverse order. 10
- (b) What is Graphics class in Java ? Explain why drawString() method is used. Also explain how you will get color of a Graphics object in java. 5
4. (a) What is access specifier ? Explain the need of access specifier. Briefly explain about public, protected and private access specifiers. 8
- (b) What is object serialization? Explain how objects are serialized with an example. Describe how volatile and transient data is serialised. 7
5. (a) What is an error in Java ? How does it differ from an exception ? 3
- (b) Explain use of final keyword in Java. 3
- (c) Describe the garbage collection mechanism in Java. How would you use the finalize() method to close all open file handles? Show with an example program. 9