

# BACHELOR OF COMPUTER APPLICATIONS

## Term-End Practical Examination

01951

December, 2013

### BCSL-056 : NETWORK PROGRAMMING AND ADMINISTRATION LAB

Time allowed : 1 hour

Maximum Marks : 50

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*Note :* There are *two compulsory* questions, 20 marks each. 10 marks are for *vive-voce*.

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1. Write and run a client and a server program using C language in Unix as per the following specifications : 20
  - A TCP client program will establish a connection and send a text string to the server.
  - A TCP server will accept the string and send back the sum of ASCII values of each character in the string.
  
2. Write down the UNIX/LINUX Command for the following operations : (verify the results) 20
  - (a) Find the subnet marking and physical address of a machine in Unix/Linux.
  - (b) Enable authentication for single-user mode on Linux.