

**BACHELOR OF COMPUTER
APPLICATIONS (BCA) (REVISED)
Term-End Practical Examination
June, 2025**

**BCSL-056(Set-I) : NETWORK PROGRAMMING
AND ADMINISTRATION LAB**

Time : 1 Hour *Maximum Marks : 50*

Note : There are two compulsory questions carrying 20 marks each. Remaining 10 marks are for viva-voce. Make suitable assumptions, if any.

1. Write the command(s) to perform the following operations : 20
 - (a) Print out the header of network packets.
 - (b) Find the subnet mask and physical address of a machine in Unix/Linux.

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2. Write and run a TCP client and a TCP server program in ‘C’ language in Unix/Linux as per the following specifications : 20
- (i) Client program will send a string of characters to the server.
 - (ii) Server will extract the vowels in the string received from client and return the extracted vowels to the respective client.

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