

**Bachelor of Computer  
Application (Revised) (BCA)  
Term-End Examination  
December, 2018**

**NETWORK PROGRAMMING AND  
ADMINISTRATION LAB**

*Time : 1 Hour*

*Maximum Marks : 50*

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- Note :** (i) There are *two* compulsory questions of 20 marks each.  
(ii) Rest 10 marks are for viva-voce.  
(iii) Make suitable assumptions, if any.
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1. Write and run a UDP client and a UDP server program using 'C' language in Unix/Linux for performing the following tasks : 20
  - (a) Establish a UDP connection between a UDP client and a UDP server.
  - (b) A UDP client will send a string to a server.
  - (c) The server program counts the number of vowels in the string and returns the value to the client.
  
2. Write the commands to perform the following tasks : 20
  - (a) Displays all connections including TCP and UDP as well as all multicast connections.
  - (b) To enable authentication for a single user mode on Linux.