

**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 TCP client and a server program using C-language in Linux/Unix environment to perform the following tasks : 20
 - (a) Establish a TCP connection between a TCP client and a TCP server.
 - (b) The client program sends two strings to the server.
 - (c) The server program returns 'YES' if both the strings are equal and 'NO' if both are not equal.
2. Write the commands to perform the following tasks : 20
 - (a) To provide information about network interfaces and all assigned IP addresses.
 - (b) To provide a list of all routers your connection cross when reaching out to a remote system.