

# POKHARA UNIVERSITY

Level: Bachelor  
Programme: BE  
Course: Network Programming

Semester: Spring

Year : 2013  
Full Marks: 100  
Pass Marks: 45  
Time : 3hrs.

*Candidates are required to give their answers in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

***Attempt all the questions.***

1. a) Briefly explain the various protocols involved in application layer of TCP/IP. 8  
b) List out some of the interesting features provided by Novel Netware. 7
2. a) Explain how TCP client server establish and terminate connection with the help of various system calls. 8  
b) What do you mean by value result argument? Explain value result argument with suitable syntax. 7
3. a) Explain the use of Select function with suitable programming example. 7  
b) Briefly explain the data structures to represent an open file in UNIX system with suitable diagram. 8
4. a) Explain Windows Socket architecture with the help of figure. 8  
b) How API are implemented in Windows Socket? Explain why we used WSACleanup () function despite of closesocket (). 7
5. a) Explain the Winsock function that we use for data transmission and connection termination. 8  
b) Briefly explain the types of Novell Netware DOS/Window driver and importance of the ECB. 7
6. a) Draw the timeline diagram of socket system calls for connection less protocols in Novell Netware. 8  
b) Explain the role of IPX and SPX data structure in Network programming. 7
7. Write short notes on: (Any two) 2×5
  - a) UUCP
  - b) Data manipulation Functions
  - c) Remote Login.