

POKHARA UNIVERSITY

Level: Bachelor
Programme: BE
Course: Network Programming

Semester: Spring

Year : 2017
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) Explain relationship between Socket, Port and IP with help of outline code. 8
b) Explain network programming model with help of suitable diagram. 7
2. a) What do you mean by byte manipulation function? List out same for the ANSIC with suitable syntax and parameter supplied. 8
b) What is UNIX domain socket? Explain how message is exchange between UNIX domains Socket with help of suitable code. 7
3. a) How Blocking I/O model ,TCP and UDP socket read and write message to and from The Kernel Buffer with the help Of suitable piece of code. 8
b) What are advantages of UNIX domain Protocol? Explain with the help of code how fcntl() function set blocking socket to non-blocking socket. 7
4. a) What is Socket Descriptor? Under what condition descriptor is said to be ready? 7
b) Why log management is important in programming. Explain how UNIX provide log management facility to network based application. 8
5. a) What are the advancement that is done by WINSOCK over BSD socket. 7
b) Discuss how you use select in conjunction with accept call in Winsock. 8
6. a) ExplainWSASocket(),WSAAccept(),WSAConnect(),WSARecv(),WSASend() call. 8
b) What is overlapped I/O socket? Explain its advantages in windows programming. 7
7. Write short notes on: (Any two) 2x5
 - a) Telnet
 - b) Remote login
 - c) netstat