Mid-West University
Examinations Management Office
Surkhet,Nepal
End Semester Examinations -2078

Bachelor level/ B.Sc CSIT /3rd Semester   Full Marks : 60
Time: 3 hrs   Pass Marks : 30
Subject : **Computer Network (COM 435)**

Group A

Very Short Answer Questions   **[8 x 2 =16]**

1. Define computer Network.
2. For IP address 192.168.10.46/27, calculate its subnet mask.
3. Point out any four protocols used in communication network.
4. Write the features of LAN.
5. What is the class of IP address 227.12.14.87?
6. Define the term client and server.
7. What is baseband and broadband cable?
8. Compare IPV4 with IPV6.

Group B

Short Answer Questions (Any Five)   **[5 x 4 =20]**

9. Difference between Internet, Intranet and Extranet with suitable example.
10. What is network topology? Differentiate between star and bus topology.
11. Explain the modes of data transmission.
12. For an IP address, if the subnet mask is 255.255.255.224, how many hosts per subset are possible?
13. Illustrate the CRC method for error detection with example.
14. Discuss about different types of data transmission media.

Group C

Long Answer Questions (Any Three)   **[3 x 8 =24]**

15. Explain different types of sliding window protocols.
16. Compare TCP/IP model with OSI Reference model.
17. Illustrate the distance vector routing algorithm with example.
18. Explain the about the different types of multiplexing techniques in detail.

THE END