Mid-West University

Examinations Management Office

Final Examinations-2079

Bachelor level/ B.Sc CSIT / 3rd Semester   Full Marks: 60

Time: 3 hours   Pass Marks: 30

Subject: Computer Network (COM435)

Candidates are required to give their answer in their own words as far as practicable. The figures in the margin indicate full marks.

Group A

Long Answer Questions (Any Three)   **[3x8=24]**

1) Describe the error detection and correction techniques in data link layer.
2) Explain about the different types of multiplexing techniques.
3) What is network topology? Illustrate the types of network topologies in detail.
4) Write about the protocols of transport layer. Also describe the services provided by transport layer.

Group B

Short Answer Questions (Any Five)   **[5x4=20]**

5) Briefly explain about the various layer of TCP/IP model.
6) List the types of unguided transmission media and explain any two of them in detail.
7) A bit stream 1110011011 is transmitted using the standard CRC method. The polynomial generator is x^4+x^3+1. What is the actual bit string transmitted?
8) What is cryptography? Explain the methods of encryption and decryption of data during transmission.
9) Differentiate between Intranet, Intranet and Extranet.
10) Write short notes about: HUB, Switch, Router, NIC.

Group C

Very Short Answer Questions   **[8x2=16]**

11) List the components of data communication.
12) How half duplex data transmission mode is different from full duplex?
13) Mention the functions of presentation layer of OSI Reference model.
14) Define WLAN.
15) Write the classes of IP address with their range.
16) Write about the bit error and burst error.
17) Write the composition of optical fiber.
18) Clarify the structure of IPV4 with IPV6.

THE END