**Asian School of Management and Technology**

(Affiliated to Tribhuvan University)

Gongabu, Kathmandu

**Full Marks: 60**

**Time: 3 Hrs.**

**SET B**

**Preboard Examination 2081**

**BIM / Fourth Semester / IT 240: Business Data Communication and Networking**

***Candidates are required to answer the question in their own words as far as practicable.***

**Group “A”**

**1. Brief Answer questions: [1 x 10 = 10]**

1. Define Attenuation.
2. List out the function of Data-link layer.
3. Describe the two advantages of IPV4 and IPV6?
4. Mention the two applications of UDP.
5. Define Switch.
6. Mention the name of data units of network layer.
7. What is TDM and FDM?
8. List any two advantage of guided media over unguided media.
9. What is circuit?
10. Mention about IOT?

**Group “B”**

**Very Short Answer Question (Any Five): [3 x 5 = 15]**

1. If a given binary data is 111010 encoding using FSK, PSK and ASK.
2. Illustrate TCP header Format with supportive diagram.
3. What is Subnetting. Describe different classes with classified IP and subnet mask.
4. Differentiate between Persistent and Non-persistent CSMA.
5. Differentiate between HTTP and HTTPS
6. What is ALOHA. Describe about Pure Aloha?

**Group “C”**

**Short Answer Question (Any Three): [5 x 3 = 15]**

1. Explain TCP three-way handshake process.
2. A bit stream 1101011011 is transmit using the standard CRC method. The generator polynomial is

x4  + x +1. What is the actual bit string transmitted?

1. Define OSI Layer? How does it work.
2. Write shorts note on:
3. Telnet
4. WWW

**Group “D”**

**Long Answer Question (Any Two): [2 x 10 = 20]**

1. Define Internet model architecture.
2. ABC organization owns IP address 220.106.148.0. this organization have “N” number of department where each department of “60” number of hosts now perform subnetting and identify the following:
3. Subnet Mask
4. Number of Subnet
5. Network address and broadcast address of each subnet
6. Range of usable IP’s in each subnet
7. Total number of IP wastages.

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