

Kathmandu University

In semester Examination-I

Subject: Data Communication and Computer Network (COMP 204)

Level: C.E

Time: 1:00 hr.

F.M.: 20

Attempt ALL questions.

1. Compare and Contrast the OSI model with TCP/IP model. Highlight the key difference in their structure and functionality. [4]
2. In Selective Repeat ARQ, the size of the sender and receiver window must be at most one-half of 2^m . Explain with suitable example. [4]
3. What is Bit Stuffing? Explain with suitable example. [2]
4. What are the drawbacks of CRC, Parity Check and Checksum approach for error detection? Explain with simple examples. [2+2+2]
5. Write short notes on: [2+2]
 - a) Fiber optic cable
 - b) Attenuation