

## COE 441 – Quiz # 2

Name:

ID#:

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1. Consider send a file of 1 million bytes over a bus topology network with two stations 2 km apart. The data rate is 10 Mbps and the frame size is 500 bytes with 60 bytes overhead. Each fame is acknowledged with a 64 bytes frame before the next frame is sent. If the propagation speed is  $200\text{m}/\mu\text{s}$ , find the following:
  - the total elapsed time
  - effective throughput

2. State **FIVE** tasks for the Data Link layer

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3. What is a **Synchronous Medium Access Control**? Give one example