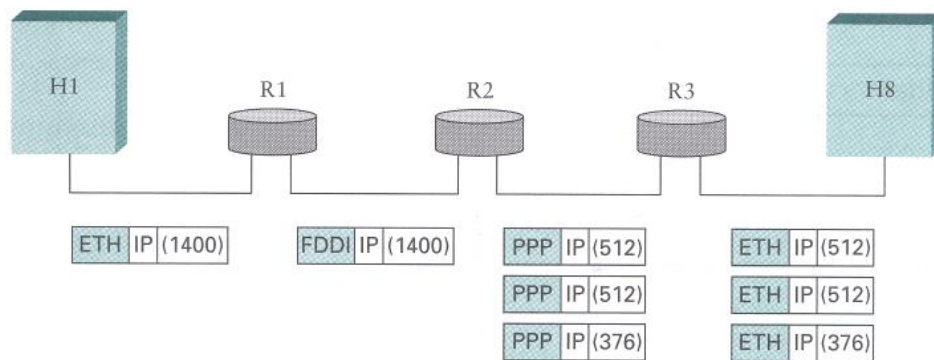


COMP2602 Revision Sheet

1. Briefly explain how the TCP/IP stack is used for data transmission between end systems.
2. How are packets moved around in the network core?
3. Why might an ADSL connection be preferred over a cable connection for Internet access?
4. Why are headers used in data communication? Give an example.
5. The Internet protocol stack can actually slow down the time to communicate data between two remote computers. Carefully explain this statement.
7. Where do delays occur in the network core? Explain.
8. Draw FSM diagrams to help describe how data communication can take place using the simplest **rdt** protocol on a reliable channel.
9. Write a UDP program to send a string to a server. The server capitalizes the string and returns it to the client. Comment on the reliability of your program.

If you were required to check the overall reliability of the programs you just wrote, describe the tests/experiments you can perform (with reasons).

10. Why are auxiliary sockets used in TCP?
11. Describe the contents of the diagram below (from Kurose-Ross).



12. How are separate network processes identified on a computer?
13. Why is demultiplexing sometimes necessary at the transport layer?