

ENS1161 Computer Fundamentals

Module 10 – Revision Questions

1. Briefly describe the function / operation of the following network devices:
 - a. Switch
 - b. Firewall
 - c. Server
 - d. WAP
2. Briefly describe the physical and link layers of the OSI model and describe their function. Include description of standards where appropriate.
3. Briefly describe the TCP/IP stack and the function of its main components.
4. What is IP and IP addressing? Describe what it is and how it is used in the transfer of data.
5. Describe the differences between:
 - a. IPv4 and IPv6
 - b. External and Local IP addresses
 - c. Dynamic and static IP addresses
6. Describe the functions of routers and the role they play in the transfer of data from client to server (host) and back.
7. What are the main two transport layer protocols in the TCP/IP stack? Describe their roles and differences.
8. Describe the functions of a DNS server and how it would be used in accessing a web page.
9. Explain what a VPN is, how it works and what it is used for.
10. Name and briefly describe 4 different Internet connection types. Include typical download speeds as part of your description.