

Unit Test 1.5

#thatsnetworksforyou

- 1) Identify the main function of the FTP protocol [1]
- 2) Identify the main function of the SMTP protocol [1]
- 3) Name the protocol that is responsible for setting rules for how devices will connect via a network, specifically by using packet switching [1]
- 4) Using a labelled diagram draw a star topology (include a server in your diagram) [3]
- 5) Using a labelled diagram draw a full mesh topology [3]
- 6) Describe one advantage of using a Mesh topology over a star topology [2]
- 7) Describe the purpose of a MAC address [2]
- 8) Describe the term "layer" in the context of computer networks [3]
- 9) Identify the main role of the following layers :
 - a) Transport layer[1]
 - b) Network layer [1]
- 10) A file is being sent from one computer to another on a large network. Explain how packet switching is used to transmit this file in an effective way. You may use a diagram to support your answer [7]
- 11) Identify ONE advantage of using 2.4Ghz Wi-fi and ONE advantage of using 5GHz wifi [2]
- 12) Describe ONE advantage of using a wired Ethernet connection over a wireless one [2]