8. A small ISP owns the following networks: 128.56.24.0/24, 128.56.25.0/24 128.56.26.0/24, 128.56.27.0/24. Perform CIDR aggregation of these networks.

[4 marks]

9. Consider sending a 1,600–byte datagram, with 20-byte header and 1580-byte payload, into a link that has an MTU of 500 bytes. Suppose the original datagram is stamped with the identification number 291. What are the values in the various fields (ID, total length, fragment offset and more bit) in each fragment?

[8 marks]

10. IPv4 addresses are being exhausted. Name three approaches to address this problem.

[3 marks]

DHCP   NAT

11. What is the role of Internet Control Message Protocol?

[2 marks]

control and handle error

12. When the bandwidth of an Ethernet LAN increases, which network parameter is affected In what way?

Speed

[2 marks]

13. Name the two operation modes of 802.11 WLAN.

b
g

[2 marks]

14. In IEEE 802.1, data link layer is divided into two sub layers. Name each sub layer, and briefly describe its function.

[4 marks]

END