THIRD SEMESTER B.Voc. DEGREE EXAMINATION, NOVEMBER 2021

(Regular/Supplementary/improvement)

CC18U SDC3 CN11 - COMPUTER NETWORKS FOR IOT

(Information Technology)

(2018 Admission onwards)

Time: Three Hours   Maximum: 80 Marks

Part A

Answer *all* questions. Each question carries **1** mark.

1. A device that sends the message to every computer in the network is called a _____

2. A WLAN uses a _____ router to connect devices to each other.

3. The _____ is responsible for translation, compression, and encryption.

4. Computer that connects to the internet is called the _____

5. _____ topology can be considered as an extension to BUS topology.

6. _____ is abbreviated as CoAP.

7. The data link layer is responsible for moving _____ from one node to the next.

8. _____ refers to the mobile phone being used outside the range of its home network and connects to another available cell network.

9. All nodes are connected to a single node is called _____

10. DHCP Stands for _____

(10 × 1 = 10 Marks)

PART B

Answer any *eight* questions. Each question carries 2 marks

11. Compare LAN, WAN and MAN?

12. What are Routers?

13. How a Switch is different from a Hub?

14. What are the 3 levels of hierarchy in IP Addressing?

15. What are the responsibilities of Session Layer?

16. What are the four main properties of HTTP?

17. Differentiate between a client and a server.

18. What are the challenges of wireless sensor networks?

19. Explain 6LowPAN Protocol.

20. Define network congestion.

21. What are the two sub layers in Data Link Layers?

22. Define MQTT Protocol.

(8 × 2 = 16 Marks)

PART C

Answer any *six* questions. Each question carries 4 marks

23. What are the important topologies for networks?

24. What is Network? Explain the characteristics of networking?

25. What is the difference between the Internet, Intranet, and Extranet?

26. What are TCP and UDP?

27. Differences between Wireless Adhoc Network and Wireless Sensor Network.

28. Define various types of Internet connections?

29. Explain the comparison between IP Version 4 & IP Version 6 Protocol.

30. Briefly Explain any Four Session layer messaging Protocols in networks.

31. What is the difference between the Internet, Intranet, and Extranet?

(6 × 4 = 24 Marks)

PART D

Answer any *two* questions. Each question carries 15 marks

32. Briefly Describe the Standard IOT Communication protocols.

33. Explain and describe different types of network topologies and brief their advantages?

34. What are the layers in OSI Reference Models? Describe each layer briefly.

35. Define routing & explain distance vector routing and link state routing.

(2 × 15 = 30 Marks)

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