

19U371

(Pages: 2)

Name:

Reg. No:

THIRD SEMESTER B.Voc DEGREE EXAMINATION, NOVEMBER 2020

(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. _____ is abbreviated as CoAP.
2. _____ is the lowest layer in a communication system and is responsible for the conversion of a stream of bits into signals that can be transmitted on the sender side
3. _____ nodes are used for constant sensing, event ID, event detection & local control of actuators.
4. The _____ is responsible for translation, compression, and encryption.
5. _____ is the layout or organizational hierarchy of interconnected nodes of a computer network.
6. _____ should know about topology of subnet.
7. _____ is the Data networking protocol.
a) RTP b) HTTP c) UDP d) FTP
8. Send a message to a well-defined group is known as _____
a) Broadcast Routing b) Hierarchical Routing
c) Multicast Routing d) Link State Routing
9. The data link layer is responsible for moving _____ from one node to the next.
a) Packets b) Byte streams c) Bits stream d) Frames
10. A computer that stores and manages files for multiple users on a network is _____
a) File Server b) Web server c) Data transfer rate d) node

(10 x 1 = 10 Marks)

PART B

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

11. What is Token Bus?
12. Define RPL.
13. What's the difference between a switch and a hub?
14. What are the two sub layers in Data Link Layers?

15. Which layers are network support layers?
16. What are the salient features of DHCP?
17. What are the functions /responsibilities of transport layer?
18. What is IP-Address?
19. Describe Zigbee Protocol.
20. What is roaming in mobile communication?
21. What is Ethernet?
22. What are the different types of Handoffs in mobile networking?

(8 x 2 = 16 Marks)

PART C

Answer any six questions. Each question carries 4 marks

23. Describe XMPP Protocol.
24. What are the important topologies for networks?
25. Describe Link State Routing Algorithm.
26. What are the responsibilities of Data Link Layer?
27. Differences between Wireless Adhoc Network and Wireless Sensor Network.
28. What are the different type of networking / internetworking devices?
29. Explain the comparison between IP Version 4 & IP Version 6 Protocol.
30. Briefly Explain the basic principle of FDDI.
31. Difference between Bluetooth Low Energy & Z-Wave.

(6 x 4 = 24 Marks)

PART D

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

32. What are the layers in OSI Reference Models? Describe each layer briefly.
33. Explain about the Routing Algorithms.
34. Briefly Describe the Session layer Messaging Protocols in IOT.
35. Explain about the different types of transmission Medias in computer networks?

(2 x 15 = 30 Marks)
