

Time: 3 HRS

Marks: 80

Note: 1. Q. No1 is compulsory

2. Solve any three questions out of the remaining five

3. Figures to right indicate full marks

4. Assume suitable data where necessary

Q.No1 Solve any four

(20)

- a. Explain any four features of MANET and compare MANET and WSN
- b. Write note on LTE frame structure in detail
- c. Describe evolution of 1G to 5 G mobile systems.
- d. Outline the method that supports mobility in CISCO Unified Wireless Network
- e. Write note on CDMA2000

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- a. Draw and explain UMTS network architecture and compare GSM and UMTS (10)
- b. Draw neat diagram of GPRS system architecture and explain the function of each block in it. (10)

3. a. Give the significance of WEP protocols. What are the features of WPA2 (10)
- b. Draw and explain the architecture of Cisco UWN with its features. (10)

4. a. Explain the layered architecture of WSN protocol and discuss issues and challenges in WSN. (10)
- b. Draw and explain LoRaWAN network architecture and technology stack in detail. (10)

5. a. What is Zigbee. Explain ZigBee protocol stack in detail? (10)
- b. Explain 4G network architecture with its specifications. (10)

6. a. Describe Bluetooth architecture and protocol Stack. Also discuss its limitations. (10)
- b. Draw and explain protocol architecture of IEEE802.11. Also discuss on power management in IEEE802.11 infrastructure network. (10)
