

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 the difference between an Infrastructures based Network and an Adhoc Network of WLAN
- b) Explain Direct Sequence Spread Spectrum
- c) Compare FDMA, TDMA and CDMA
- d) Outline the method that supports mobility in CISCO Unified Wireless Network
- e) State the features of Wi-MAX

2

- a. Draw and explain 4G architecture with its specifications. (10)
- b. Explain in detail GSM Architecture with neat diagram (10)

3. a. Give the significance of WEP protocols. What are the features of WPA2 (10)
- b. Draw and explain Cisco UWN lightweight AP and WLC Operation. (10)

4. a. What are the various challenges in WSN and explain the architecture of WSN (10)
- b. What do you mean by massive MIMO; Compare 1G- 5G mobile standards. (10)

5

- a. Explain Zigbee protocol stack (10)
- b. Give the Features of VANET, E-VANET and MANET (10)

6

- a. Explain UMTS and GSM security (10)
- b. Draw and explain IEEE 802.11 Architecture (10)
