Time: 3 Hours **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 different features of VANET and E-VANET

b) Write note on UMTS security.

c) Compare FDMA, TDMA and CDMA

d) Outline the method that supports mobility in CISCO Unified Wireless Network

e) Differentiate between FHSS and DSSS.

Q.2

a. Draw and explain UMTS network architecture and compare GSM and UMTS (10)
b. Draw and explain the GSM time slot hierarchy. (10)

Q.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)

Q.4 a. Explain the architecture of WSN protocol and discuss applications of WSN. (10)

b. Draw and explain LTE network architecture in detail. (10)

Q.5

a. State different features of Zigbee and explain its protocol stack. (10)
b. Explain 4G network architecture with its specifications. (10)

Q.6

a. Draw and explain OFDMA technique for multiplexing. (10)

b. Draw and explain system architecture of IEEE802.11.Differentiate between IEEE802.11 and IEEE802.16 . (10)

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