

TE SEM-VI INPT C scheme May 2026

Date: 15/05/2026

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 phone systems.

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

e) write note on CDMA2000

2. Solve the following

(20)

a. Draw and explain UMTS network architecture and compare GSM and UMTS

b. Draw neat diagram of GPRS system architecture and explain the function of each block in it.

3. Solve the following

(20)

a. Give the significance of WEP protocols. What are the features of WPA2

b. Draw and explain the architecture of Cisco UWN with its features.

4. Solve the following

(20)

a. Explain the layered architecture of WSN protocol and discuss issues and challenges in WSN.

b. Draw and explain LoRaWAN network architecture and technology stack in detail.

5. Solve the following

(20)

a. What is Zigbee. Explain ZigBee protocol stack in detail.

b. Explain 4G network architecture with its specifications.

6. Solve the following

(20)

a. Describe Bluetooth architecture and protocol Stack. Also discuss its limitations.

b. Draw and explain protocol architecture of IEEE802.11. Also discuss on power management in IEEE802.11 infrastructure network.

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