

Total No. of Questions : 8]

SEAT No. :

P3062

[5154]-630-A

[Total No. of Pages : 2

B.E. (E & TC)

WIRELESS NETWORKS (THEORY)

(2012 Pattern) (Semester - II) (Elective - IV) (404192D)

Time : 2½Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data if necessary.

Q1) a) Explain the concept of following: **[8]**

- i) TDD and FDD.
- ii) TDMA.
- iii) FDMA.
- iv) CDMA.

b) Explain the any two Security services provided in 802.11. **[6]**

c) Explain architecture of 3Gpp. release 4 Network. **[6]**

OR

Q2) a) What is cell Sectorization? Give the advantages of cell Sectorization in mobile communication. **[8]**

b) List the Wifi Configurations. Explain the Enterprise application configurations. **[6]**

c) Compare TD-CDMA and TD-SCDMA. **[6]**

Q3) a) Explain various releases of LTE with major features and wireless access technology. **[9]**

b) Explain uplink logical channel structures with functionality. **[6]**

c) Describe self Organizing Networks. **[3]**

OR

P.T.O.

- Q4)** a) What is the advantages of MIMO in LTE. Describe e mode B 4×4 configuration. [9]
b) Give the scheduler decisions involved in LTE with Policies. [9]

- Q5)** a) Give neat block diagram of the WiMAX network architecture. Explain the function of each block in detail. [8]
b) Draw and explain 802.16m TDD, 802.16m FDD and super frame structure. [8]

OR

- Q6)** a) Which are the different frequency bands and channel bandwidth used for WiMAX. [8]
b) Describe various interfaces for WiMAX. [8]

- Q7)** a) With neat sketch explain the function of each layer in VOLP Protocol. [8]
b) With neat signal flow diagram, Explain the fast connect procedure in H.323. [8]

OR

- Q8)** a) How the call establishment and release operation performed in SIP. [8]
b) With example explain IP to 557 connectivity using SIGTRAN. [8]

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