Total No. of Questions : 8]

SEAT No. :

P3062

[Total No. of Pages : 2

[5154]-630-A
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]**

⊗⊗⊗