

Total No. of Questions : 06]

SEAT No. :

P322

[Total No. of Pages : 2

APR. - 16 /BE/Insem-53

B.E. (Electronics and Telecommunication)

WIRELESS NETWORKS

(2012 Pattern) (Semester - II) (Theory) (Elective - IV(d))

Time : 1 Hour]

[Max. Marks :30

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.*
- 2) Neat diagrams must be drawn wherever necessary.*
- 3) Figures to the right indicate full marks.*
- 4) Use of non-programmable electronic pocket calculator is allowed.*
- 5) Assume Suitable data if necessary.*

- Q1)** a) With the help of suitable diagram, explain the evolution of wireless technologies from 1G to 4G. [7]
- b) Differentiate FDD and TDD techniques used in wireless networks. [3]

OR

- Q2)** a) With the help of suitable diagram, explain and compare FDMA, TDMA and CDMA techniques. [7]
- b) Enlist the objectives of next generation wireless technologies. [3]

- Q3)** a) Compare the performance of various IEEE 802.11 standards. [7]
- b) Enlist various communication technologies deployed in ISM band. [3]

OR

- Q4)** a) Discuss various issues and challenges in the design of WiFi networks. [7]
- b) Explain the WEP in brief. What are the alternatives to that? [3]

P.T.O.

- Q5)** a) Enlist the 3G proposals standardized by IMT2000. Explain the architecture of WCDMA - FDD networks. [7]
- b) Compare the performance of UMTS, CDMA2000 and TD-SCDMA in terms of spectrum requirements and modulation used. [3]

OR

- Q6)** a) What is the importance of IMS for all IP architecture? Draw architectural diagram of IMS based 3G network. [7]
- b) Explain the difference between 1xEVDO and 1xEVDOV. [3]

