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Total No. of Pages : 2

B.E. (E & TC) (Part - IV) (Semester - VII) Examination, April - 2016

WIRELESS COMMUNICATION

Sub. Code : 47927

Day and Date : Saturday, 30 - 04 - 2016

Total Marks : 100

Time : 03.00 p.m. to 06.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Assume suitable data if necessary.
 - 3) Figure to the right indicate full marks.

SECTION - I

Q1) Solve any two:

[2 × 8 = 16]

- a) Explain the concept of frequency reuse.
- b) Explain in detail cell splitting & sectoring.
- c) Explain Indoor & Outdoor propagation model in detail.

Q2) Solve any two:

[2 × 8 = 16]

- a) Explain in detail two-ray ground reflection model.
- b) Explain impulse response model of a multipath channel.
- c) Discuss free-space propagation model for mobile communication.

Q3) Solve any two:

[2 × 9 = 18]

- a) Explain small-scale multipath measurements.
- b) Explain various parameters of mobile multipath channels.
- c) Explain 3 G wireless networks.

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SECTION - II

Q4) Solve any two:

[2 × 8 = 16]

- a) Compare FDMA & TDMA.
- b) Explain CSMA protocol.
- c) Draw & explain block diagram of cellular radio network.

Q5) Solve any two:

[2 × 8 = 16]

- a) Explain traffic mechanism in the wireless networks.
- b) Compare AMPS and ETACS.
- c) Explain IEEE 802.11 standards.

Q6) Write short note on any three.

[3 × 6 = 18]

- a) ISDN.
- b) UMTS.
- c) GSM frame structure.
- d) United states digital cellular.

