

Seat No.	
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**B.E. E & TC (Part - IV) (Semester - VII) Examination,
May - 2017**

WIRELESS COMMUNICATION (PRE-REV)

Sub. Code : 47927

Day and Date : Tuesday, 16 - 05 - 2017

Total Marks : 100

Time : 02.00 p.m. to 05.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.

Q1) Attempt any two **[2 × 8 = 16]**

- a) Explain in detail cell splitting & sectoring.
- b) Explain practical link budget design using pathloss mode
- c) Explain Indoor and Outdoor propagation model in detail

Q2) Attempt any two **[2 × 8 = 16]**

- a) Explain in detail types of small-scale fading based on multipath time delay spread
- b) Discuss free-space propagation model for mobile communication.
- c) Explain large scale pathloss

Q3) Attempt any two **[2 × 9 = 18]**

- a) Explain three basic propagation mechanisms.
- b) Explain various parameters of mobile multipath channels.
- c) Explain 2G & 3G wireless networks.

SECTION -II

Q4) Attempt any two **[2 × 8 = 16]**

- a) Explain CSMA protocol
- b) Explain in detail cellular digital packet data
- c) Explain multiple access techniques for wireless communications

P.T.O.

Q5) Attempt any two

[2 × 8 = 16]

- a) Explain IS-54 & IS-136 digital cellular standards.
- b) Compare ETACS & AMPS
- c) Explain in detail X.25 protocol

Q6) Write a short note any three

[3 × 6 = 18]

- a) Packet radio protocol
- b) Global System for Mobile
- c) ISDN
- d) Common channel signalling

