

SE - 478

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Seat No.	
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**B.E. (Electronics & Telecommunication Engineering)  
(Semester - VII) (Old) Examination, December - 2018  
WIRELESS COMMUNICATION**

**Sub. Code : 47927**

**Day and Date : Saturday, 01 - 12 - 2018**

**Total Marks : 100**

**Time : 02.30 p.m. to 05.30 p.m.**

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

**Q1) Attempt Any Two of the following.**

**[2 × 8 = 16]**

- a) Explain cellular concept with diagram.
- b) Explain ground reflection model with diagram & equations.
- c) Explain parameters of mobile multipath channel.

**Q2) Attempt Any Two of the following.**

**[2 × 8 = 16]**

- a) Explain types of small scale fading.
- b) Explain free space propagation model.
- c) Explain generations in wireless network with diagram.

**Q3) Write a note on Any Three of the following.**

**[3 × 6 = 18]**

- a) Rayleigh and Ricean Distributions.
- b) WLL.
- c) Outdoor propagation model.
- d) Three basic propagation mechanism.

**P.T.O.**

Q4) Attempt Any Two of the following.

[2 × 8 = 16]

- a) Explain concept of TDMA & SDMA.
- b) Explain Signaling System No. 7 (SS7) in detail.
- c) Explain CT2 standard for cordless Telephones.

Q5) Attempt Any Two of the following.

[2 × 8 = 16]

- a) Explain Universal Mobile Telecommunication System (UMTS).
- b) Explain Pacific Digital Cellular (PDC).
- c) Explain capacity of cellular system.

Q6) Write a note on Any Three.

[3 × 6 = 18]

- a) Multiple access techniques.
- b) Development of Wireless Networks.
- c) Digital European Cordless Telephones (DECT).
- d) IEEE 802.11 standard.

