

SJ -800

Total No. of Pages :2

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| Seat No. | |
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B.E. E & Tc (Semester - VII) Examination, November - 2016

WIRELESS COMMUNICATION

Sub.Code:47927

Day and Date :Thursday,17- 11 - 2016

Total Marks :100

Time :02.30 p.m to 05.30 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 WLL
- b) Compare 2G & 3G wireless network
- c) Explain practical link budget design using pathloss model.

Q2) Solve any two **[2×8=16]**

- a) Explain three basic propagation mechanisms.
- b) Explain in detail Rayleigh & Ricean distribution.
- c) State & explain factors influencing small scale fading

Q3) Write a short note on any three **[3×6=18]**

- a) Cellular Communication
- b) Signal penetration in to buildings.
- c) Ricean fading distribution.
- d) Impulse response in multipath channel.

P.T.O.

SECTION -II

Q4) Solve any two

[2×8=16]

- a) Explain multiple access techniques for wireless communications.
- b) Explain in detail packet radio protocols.
- c) Discuss signalling system.

Q5) Solve any two

[2×8=16]

- a) Explain in detail ISDN
- b) Explain Global system for mobile
- c) Explain IS - 54 & IS - 136 digital cellular standards.

Q6) Write a short note on any three

[3×6=18]

- a) Network access protocol
- b) Common channel signalling
- c) Personal Communication Services (PCS)
- d) Digital European Cordless Telephones (DECT)

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