[Total No. of Questions - 9]	[Total No. of Printed Pages - 2]
(2125)	

15267

B. Tech 7th Semester Examination Wireless Communication (OS) EC-7012

Time: 3 Hours Max. Marks: 100

The candidates shall limit their answers precisely within the answerbook (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Attempt five questions, selecting at least one question from section A, B, C, D and Section-E is compulsory. Each section will carry equal marks.

SECTION - A

- (a) Describe about 2G , 3G and 4G wireless networks.
 (10)
 - (b) Explain the working principle of Cordless phones. (10)
- 2. (a) Explain the working principle of paging system. (10)
 - (b) Give the comparison of various wireless systems. (10)

SECTION - B

- 3. (a) Explain the working principle of cellular networks and types of Handoff techniques. (10)
 - (b) Describe the Common channel signaling process. (10)
- 4. (a) Describe the cell splitting criteria and the operations of cellular system. (10)
 - (b) How Digital cellular system works? (10)

[P.T.O.]

2 15267 SECTION - C

- (a) Explain in detail the working principle of TDMA and FDMA.
 (10)
 - (b) Describe the difference between wireless and fixed telephone networks. (10)
- 6. (a) Describe Space division multiple access technique. (10)
 - (b) Explain the working principle of Integrated service digital networks (ISDN). (10)

SECTION - D

- 7. (a) Define intelligent cell concept and give its applications. (10)
 - (b) Explain how does CDMA technology works. (10)
- 8. (a) Describe in detail features of GSM and CDMA standards. (10)
 - (b) Why the power control is important in CDMA? (10)

SECTION - E

- 9. (i) How is audio transmited using blue tooth?
 - (ii) Give difference between narrowband and wideband systems.
 - (iii) Define frequency reuse,
 - (iv) What are wireless data services?
 - (v) Define call drop. Why hand off is needed? (4×5=20)