

SECTION – A

Roll No.

24335

**B. Tech. 6th Semester (IT)
Examination – May, 2019**

WIRELESS COMMUNICATION

Paper : EE-402-F

Time : Three Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any five questions in all, selecting one question from each Section. Question Number 1 is compulsory. All questions carry equal marks.

- 1. (a) What are the role of TRAI in India ? 4
- (b) Write the full form of Wi-Fi, UMTS, GSM. 4
- (c) Define dedicated channels and traffic channels. 4
- (d) What geometric shape is used in cellular system design and why ? 4
- (e) Why intelligent cell is required for cellular communication ? 4

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- 2. (a) What are the different types of modern wireless communication system ? 10
- (b) Explain Bluetooth technology in detail. 10
- 3. (a) Compare PAN and WLL technologies. 10
- (b) What are the various stages in wireless communication history and when ? 10

SECTION – B

- 4. (a) Define the following term in brief : (i) Trunking (ii) Grade of service (iii) Sectoring 12
- (b) Explain in detail fixed channel and dynamic channel assignment strategy. 8
- 5. Explain Basic cellular system in detail. Also provide the performance evaluation criteria of a cellular system. 20

SECTION – C

- 6. (a) Differentiate between TDMA and FDMA. 10
- (b) Write short note on ISDN. 10
- 7. (a) Explain in detail the Spread spectrum multiple access. 12
- (b) Compare wireless and fixed telephone networks. 8

SECTION – D

- 8. Explain CDMA structure with its feature and working. 20

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9. (a) Explain the concept of direct sequence CDMA, and find its relation with C/I. 10
- (b) Define Radio Capacity. What are different factors that can affect the radio capacity? 10
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