

**M. Tech. –II (Computer Engineering) (CBCS – 2015 Course) :  
SUMMER - 2019**

**SUBJECT : WIRELESS COMMUNICATION AND SECURITY**

Day : Tuesday  
Date : 11/06/2019

**S-2019-3404**

Time : 11.00 AM TO 02.00 PM  
Max. Marks : 60

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SAME** Answer book.
- 4) Draw neat and labelled diagrams **WHEREVER** necessary.

**SECTION – I**

- Q.1** With neat diagram explain wireless communication architecture in detail. **(10)**  
**OR**  
Explain different types of signal antennas.
- Q.2** Compare SDMA and FDMA. **(10)**  
**OR**  
Explain UMTS in detail.
- Q.3** Explain with neat diagram routing in satellite systems. **(10)**  
**OR**  
Explain in detail cyclic repetition of data.

**SECTION – II**

- Q.4** Explain with example difference between infrared and radio transmission? **(10)**  
**OR**  
Explain mobile quality of service and access point control protocol.
- Q.5** Explain different routing algorithms used in Ad-hoc networks. **(10)**  
**OR**  
Explain in detail power management issues of Ad-hoc network nodes.
- Q.6** What are the different QOS parameters used in wireless communication for performance analysis? **(10)**  
**OR**  
Explain different non line of sight issues in wireless networks.

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