

MASTER OF TECHNOLOGY (COMPUTER ENGINEERING) (CBCS - 2015 COURSE)

M. Tech. (Computer Engineering) Sem-II :SUMMER- 2022

SUBJECT : WIRELESS COMMUNICATION & SECURITY

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 3/8/2022

S-14143-2022

Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.
- 4) Assume suitable data, if necessary.

SECTION – I

Q. 1 What is signal propagation? Draw and explain signal antennas and signal propagation in cellular systems. **(10)**

OR

Draw and explain simplified reference model in wireless communication. **(10)**

Q. 2 Compare similarities and differences among SDMA, FDMA, TDMA and CDMA in medium access control. **(10)**

OR

Explain TETRA and UMTS of Telecommunication systems. **(10)**

Q. 3 Explain localization and handover of satellite systems. **(10)**

OR

Explain Digital Video Broadcasting (DVB) for wireless broadcast systems. **(10)**

SECTION – II

Q. 4 Draw and explain radio access layer in wireless ATM. **(10)**

OR

What is access point control protocol? Draw and explain in detail. **(10)**

Q. 5 What is mobile IP? Draw and explain Dynamic Host Configuration Protocol (DHCP) **(10)**

OR

Compare among Traditional TCP, Indirect TCP and Mobile TCP. **(10)**

Q. 6 What is security? Explain energy – aware security mechanisms in wireless communication. **(10)**

OR

Write short note on: **(10)**

- a) Key pre distribution and management
- b) Secure Ad-hoc networks

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