

M. Tech.-III (Information Technology) (CBCS – 2015 Course) :
SUMMER - 2019
SUBJECT : ELECTIVE – I : WIRELESS COMMUNICATION NETWORK

Day : Friday
Date : 17/05/2019

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

S-2019-3494

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 labeled diagram **WHEREVER** necessary.
- 5) Assume suitable data, if necessary.

SECTION – I

Q. 1 Describe SDMA – Multiple access schemes for wireless communication. **(10)**

OR

Q. 1 Elaborate evolution of cellular system. **(10)**

Q. 2 Describe frequencies management in wireless network with suitable example. **(10)**

OR

Q. 2 Elaborate how to improve the system capacity in wireless communication network. **(10)**

Q. 3 Explain GSM architecture and interfaces with an example. **(10)**

OR

Q. 3 Describe signal processing in GSM. **(10)**

SECTION –II

Q. 4 Describe logical link control and adaptation protocol with suitable example. **(10)**

OR

Q. 4 Describe MAC layer, MAC frame and MAC management. **(10)**

Q. 5 Elaborate wireless access protocol architecture. **(10)**

OR

Q. 5 Describe wireless application environment with suitable example. **(10)**

Q. 6 Describe IEEE 802.15 WPAN technology. **(10)**

OR

Q. 6 Describe IEEE 802.16 WMAN technology. **(10)**

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