

B.Tech. SEM -V Bio Medical 2014 Course (CBCS) : WINTER - 2018
SUBJECT : PRINCIPLES OF COMMUNICATION AND TELEMEDICINE

Day : Saturday
Date : 24/11/2018

W-2018-2431

Time : 02.30 PM TO 05.30 PM
Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

Q. 1 Discuss in brief multi channel wireless telemetry system. (10)

OR

Describe the various modulation schemes used in wireless telemetry for transmitting Biomedical signals. (10)

Q. 2 Elaborate the role of artificial intelligent system in health care and diagnosis. (10)

OR

What is a telemedicine concept? Discuss various applications in detail (10)

Q. 3 a) Explain the block diagram of super heterodyne receiver. (05)

b) What is tracking? Explain any one method of tracking. (05)

OR

Describe the generation of FM and PM wave. (10)

Q. 4 a) Compare natural and flat top sampling. (05)

b) What are the drawbacks of Delta modulation? (05)

OR

a) How analog signal is converted into digital using PCM? (05)

b) What is concept of Time division multiplexing? (05)

Q. 5 Describe the various modulation schemes used for MODEM. (10)

OR

a) Write in brief about physical and network layer of OSI architecture. (05)

b) Write a note on Rs. 232 protocol. (05)

Q. 6 a) Describe different orbital aspect in satellite communication. (05)

b) Explain polarization with respect to satellite communication. (05)

OR

a) Discuss the losses in optical fiber. (05)

b) Compare various multiple access methods. (05)

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