

(Following Paper ID and Roll No. to be filled in your Answer Books)

PAPER ID :

Roll No.

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B.TECH.

Theory Examination (Semester-VIII) 2015-16

TELEMEDICINE

Time : 3 Hours

Max. Marks : 100

SECTION A

Q. Q.1 Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2 x 10=20)

- What is basic difference between Telemetry and Telecommunication?
- Define Frequency division multiplexing.
- Define cardiology.
- What do you mean by Tele-pathology.
- What is the basic difference between voice and image transfer protocols.
- Give the two examples of wireless Telemetry?
- What is advantage of digital signals over analog signals.
- What is the difference between router and hubs.
- What do you mean by virtual reality.
- What do you mean by clinical networks.

SECTION B

Q2. Attempt any 5 questions from this section.

(10 x 5=50)

- Distinguish between a three line and two line electrical type transmitter. What type of variable does it transmit? Which one is more popular in industry and why?
- Why is frequency telemetry considered superior to voltage or current telemetry, even in short distance cases.
- Briefly explain about Neurology department under telemedicine.
- Describe Tele-Pathology and Tele-Surgery with relevant data.
- Explain various methods of Data compression and Transfer technology.
- Describe with relevant block diagrams Tele medical workstations.
- What do you mean by Web Technology. Explain briefly various types of networks.
- Write short notes on
 - Malpractice and liability
 - Broadcasting

SECTION C

Note: Attempt any 2 questions from this section.

(15 x 2=30)

Q:3 . Draw the sketch of a pneumatic telemetering system. What types of data can be telemetered by a such a system? How is a fluid line characterized? What is the important parameter in such a system?

Q:4 Describe various methods of Medical image scanning.

Q:5 Write Short notes on

- Remote Sensing
- DSL Equipments
- Intellectual property rights.