



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

PAPER ID : 101805

Roll No.

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B. Tech.

(SEM. VIII) THEORY EXAMINATION, 2014-15
TELEMEDICINE

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all questions.

1 Attempt any two parts of following : **2×10=20**

- (a) Enumerate the types of pneumatic transmitters used in the process industry. Explain with a neat sketch the working of differential pressure pneumatic transmitter.
- (b) What are the problems associated with the implant telemetry circuits.
- (c) Define biotelemetry. Explain the importance of biotelemetry in the modern world.

2 Attempt any two parts of following : **2×10=20**

- (a) Draw a telemetry circuit to transmit ECG signals in a reliable manner.
- (b) Describe in brief about satellite communication with block diagram.
- (c) Explain in brief about oncology and ophthalmology in detail.

3 Attempt any two parts of following : **2×10=20**

- (a) Give details about clinical parameters of telemedicine industry.
- (b) Briefly explain about cardiology department under telemedicine.
- (c) Define the criteria of legal and ethical issues of telemedicine department.

4 Attempt any two parts of following : **2×10=20**

- (a) Write short notes on :
 - (i) Intellectual Property right
 - (ii) Neurological Monitoring Devices
- (b) Differentiate between tele-pathology and tele-surgery.
- (c) Give details about vital sign monitoring devices.

5 Attempt any two parts of following : $2 \times 10 = 20$

- (a) Write short notes :
 - (i) Cable modem
 - (ii) Fast switches ethernet
 - (b) Write notes on analog to digital conversion.
 - (c) What is purpose of EMI emergency medicine ?
Briefly explain about mental health cure in European country.
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