

Q.P. Code :25061

[Time: Three Hours]

[Marks:80]

Please check whether you have got the right question paper.

- N.B:
1. Question.No.1 is compulsory.
 2. Attempt any 3 questions from remaining 5 questions.

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| Q.1 | a. Explain in brief, about Lithotripsy. | 05 |
| | b. Explain the need of subcarriers in Bio – telemetry system. | 05 |
| | c. Write short notes on, Telemedicine. | 05 |
| | d. Explain in brief, about Chopper amplifier. | 05 |
| Q.2 | a. Explain the principle and working of Optical type of Isolation amplifier. | 10 |
| | b. Explain with a neat diagram the working of Electrosurgical Diathermy. | 10 |
| Q.3 | a. Explain the various Image Reconstruction techniques used in MRI system with neat diagram. | 10 |
| | b. Explain with a neat diagram, each block of 6 – lead ECG signal conditioning system. | 10 |
| Q.4 | a. Explain working of Muscle stimulators with different types of waveforms. | 10 |
| | b. Explain the different types of lasers, along with their working concept. | 10 |
| Q.5 | a. Explain the working of an Endoscopy system with neat diagram. | 10 |
| | b. Explain the working of Multichannel Radio – telemetry system, with Frequency division multiplexing | 10 |
| Q.6 | Write short notes on (any two): | 20 |
| | a. Cardiovertor | |
| | b. TENS | |
| | c. Short wave Diathermy | |