

24/12/11. T.E. (ETRX). Sem VI.

43 : 2nd half. 11-AM(f)

Con. 6885-11.

Elective :- I :- Medical Electronics.

MP-3562

(3 Hours)

[Total Marks : 100

- N.B. :** (1) Question No. 1 is **compulsory**.
(2) Solve any **four** questions from Question Nos. 4 to 7.
(3) Assume suitable **data** if **necessary**.

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| 1. (a) Explain Recording Electrodes. | 20 |
| (b) Explain Electronic Spirometer. | |
| (c) Explain Pulse Oximeter. | |
| (d) Explain Computer Tomography. | |
| 2. (a) Write in brief Man-Instrument System. | 12 |
| (b) How action Potential generated ? | 8 |
| 3. Write short notes on the following :— | 20 |
| (a) Electro-myogram | |
| (b) Electro cardiogram | |
| (c) Electro retinogram. | |
| 4. (a) Explain Electroencephalograph (EEG). | 10 |
| (b) Explain measurement of blood pressure and blood flow. | 10 |
| 5. Write short notes on the following :— | 20 |
| (a) Ventilators | |
| (b) Short Wave Diathermy | |
| (c) Ultrasound therapy unit. | |
| 6. (a) Explain Magnetic Resonance Imaging. | 10 |
| (b) Explain Positron Emission Tomography. | 10 |
| 7. (a) Explain Hospital Management System. | 10 |
| (b) Explain Electrical Safety Codes and Standards. | 10 |