	S.B. Roll No
	MEDICAL ELECTRONICS
	6 th Exam/ECE/EMP/ECEII/6180/6761/May,2015
	Duration: 3 HoursMax. Marks: 75Note: Attempt all Questions
	Section A
1.	Fill in the Blanks 10 × 1.5
	The is the largest organ in the human body.
II.	MRI stands for
III.	Bio Electric Potentials are in nature.
IV.	LVDT stands for
V.	A Thermistor is a sensitive resistor.
VI.	EMG stands for
VII.	A Sphygmomanometer is a device used to measure
VIII.	The primary resistance is offered by to the currents in human body.
IX.	An Ultrasonic Flow meter is based on the principle of
Х.	EEG machine is used to measure the electrical activity.
	Section
	2. Attempt any Six Questions6 × 5
I.	Explain any two diagnostic and therapeutic equipment.
II.	What is Pressure Transducer? Explain any of its two types.
III.	Explain respiration rate measurement.
	Write short note on
IV.	Bio electric signals
V.	Electrode Tissue Interface
a.	
VI.	Gross Current Shock
VII.	Micro Current Shock
	Explain structure and function of Blood Vessels.
	Differentiate between ECG, EEG, EMG.
C.	Explain Special design from safety considerations.
	Section C 3 × 10 3 × 10
(i)	
(i) (ii)	
. ,) What is Defibrillator? Explain its working principle. Also explain its types.

(iv) What is Temperature Sensor? Explain its types in detail.