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MEDICAL FLECTRONICS

6 th /ECE/EMP/ECE(II)/6180/Nov'15	
Duration 3 Hrs	M.Marks=75
Note: Attempt all questions:	141.141G1R3-75
SECTION A	
Q1 Answer the following:	15
(i) Pressure	
(ii) E.M.G.	
(iii) ECG	
(iv) MRI	
(v) Bioelectrode	
(vi) Anatomy	
(vii) Gross shock	
(viii) Types of heart rate meters	
(ix) Incubator	
(x) Muscle action	
SECTION B	
Q2: Attempt any FIVE questions:	5x6=30
i. Explain method to measure heart rate of body.	
ii. Explain pressure transducer with the help of classification.	
iii. Explain and classify the micro electrode.	
iv. Write precaution to minimize electric shock hazards.	
v. What is central nervous system? Explain.	
vi. Describe few therapeutic equipments.	
SECTION C	
O2 Au THDEE	2 10 20

Q3: Attempt any THREE questions:

3x10=30

- i Draw block diagram of ECG machines. Explain its working.
- ii Explain the anatomy with the help of various parts of the body.
- iii What is MRI? Explain it with help of block diagram.
- iv Write short note on any TWO:
 - (a) Micro current shock
 - (b) Blood pressure measurement
 - (c) Electrode tissue interface