Q.P. Code: 25392

Duration: 03 Hours. Instructions to the candidates if any:-

- N. B. (1) Question No. 1 is compulsory.
 - (2) Answer any **Three** out of remaining questions.
 - (3) Assumptions made should be **clearly** stated.



Total marks: 80

Q. No.	Marks
Q. 1 Solve any Four	20
a) Explain EEG patterns)
b) Explain action and resting potential of cell	
c) What is fibrillation? List its types	
d) What is Hounsfield number in C.T.?	
e) What is Pacemaker? Classify its modes of operation	
Q. 2) a) Explain electrode electrolyte interface	10
b) Explain cardio vascular system in detail	10
Q. 3) a) Explain 12 lead electrode system for ECG measurement	10
b) Explain electromagnetic blood flow measurement technique	10
Q.4) a) What is cardiac output? Explain its measurement	10
b) What is plethysmography? Explain Chamber Plethysmography	10
Q. 5) a) Explain working of Hemodialyser and precautions to be taken	10
b) Explain working of X ray machine with block diagram	10
Q.6) a) Explain modes of ultrasound imaging	10
b) Explain physiological effects of electric current?	10