

Sem-VII / Biomedical Instrumentation I

19-05-16

QP Code : 31299

Duration: 03 Hours.

Total marks assigned: 80

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.

Q. No.	Marks
Q. 1 Explain	20
a) Explain nerve muscular junction	
b) Explain cardio vascular system	
c) Compare direct and indirect blood pressure measurement	
d) What is mean arterial blood pressure? Write its equation	
Q.2 a) Explain types of bio-potential Electrode	10
b) Explain 12 lead electrode configuration for ECG measurement	10
Q.3 a) what is cardiac output? How it is measured	10
b) Explain EEG measurement	10
Q. 4 a) Explain defibrillator in detail	10
b) Explain indirect bold pressure measurement	10
Q.5 a) Explain working of CT machine	10
b) What is NMR? Explain MRI concepts	10
Q.6 a) Explain heart lung machine	10
b) Explain physiological effects of electric current.	10

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