

19-05-16

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
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| 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 |