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Roll No

EI/IC-604**B.E. VI Semester**

Examination, June 2017

Medical Instrumentation*Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.
 ii) All questions carry equal marks.
 iii) Assume suitable data, wherever necessary.

1. a) Discuss cardiac, nervous and respiratory systems. 7
 b) Discuss Transducers used in Biomedical applications. 7
2. a) Explain measurement of Blood pressure. 7
 b) Discuss Cardiac output measurement and Cardiac rate. 7
3. a) Discuss Magnetic-Cardiography. 7
 b) Discuss Cardiac pacemaker. 7
4. a) Discuss measurement of pH value of blood. 7
 b) Explain ESR measurements. 7
5. a) Explain GSR measurement. 7
 b) Discuss polarographic measurements. 7

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6. a) Explain Ultrasound Imaging. 7
 b) Discuss MRI. 7
7. Explain patient care monitoring. 14
8. Write short notes on any two: 14
 a) PO₂ and PCO₂ electrodes
 b) Measurement of gas volume
 c) Defibrillator

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