|--|--|

Reg. No.:		-					
	Lahor	sala 0	I VI	Has	s but		

Question Paper Code: 40928

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Sixth Semester

Electronics and Communication Engineering EC 6001 – MEDICAL ELECTRONICS (Regulations 2013)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART - A

 $(10\times2=20 \text{ Marks})$

- 1. What are the requirements of bio amplifiers?
- 2. State the importance of PCG signals.
- 3. What is colorimeter? State its uses.
- 4. Define cardiac output. What are the methods used to measure cardiac output?
- 5. What is the function of haemodialysis system?
- 6. What types of electrodes are used in a defibrillator?
- 7. List the devices used to protect against electrical hazards.
- 8. What does the term fulguration refer to?
- 9. Define medical thermograph.
- 10. Mention the advantages of performing surgery using laser.

PART – B

(5×13=65 Marks)

- 11. a) i) Draw the equivalent circuit of biopotential electrode interface and explain about half cell potential. (5)
 - ii) Explain the different types of electrodes used in biopotential measurement. (8)

(OR)