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Question Paper Code: 42406

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

Sixth Semester

Electronics and Communication Engineering EC 2021 – MEDICAL ELECTRONICS

(Regulations 2008)

(Common to PTEC 2021 – Medical Electronics for B.E. (Part-Time) Seventh Semester – ECE – Regulations 2009)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART - A

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

- 1. Define Einthoven's triangle.
- 2. What is resting potential?
- 3. Enumerate the need for photometer.
- 4. What is pulse rate?
- 5. Define fibrillation.
- 6. What is radio pill?
- 7. What is radiation therapy?
- 8. List few radioisotopes.
- 9. Define micro shock.
- 10. What are the applications of endoscopy?

PART - B

(5×16=80 Marks)

11. a) Explain the lead system and recording method of ECG.

(OR)

b) Explain the 10-20 lead system for EEG.

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12. a) Explain any two methods for measuring the blood pressure.

(OR)

- b) Explain about:
 - i) Auto analyzer.

(8)

ii) Blood cell counters.

(8)

13. a) With a neat diagram explain the Bio-telemetry system.

(OR)

- b) Discuss about DC defibrillators.
- 14. a) Explain about the instruments for diagnostic X-rays.

(OR)

- b) Explain the instrumentation system for radioisotope procedures.
- 15. a) Explain the applications of laser in medicine.

(OR)

b) Explain about the electrical safety in the medical equipments.

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