

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF PHYSIOTHERAPY**  
**BPT, November – 2018 Examination**

**Year: 2**

**Subject Code: 07101206**

**Subject Name: Biomedical Physics**

**Date: 27/11/2018**

**Time: 10:00am to 12:00pm**

**Total Marks: 35**

---

**Instructions:**

1. All questions are mandatory
2. Figures to the right indicate full marks.
3. Draw Diagram wherever necessary.
4. Write separate sections on separate answer sheets.

**Section - A**

**Q.1** What is Electromagnetic spectrum? Draw a neat diagram & Tabulate & write a note on Properties, the frequencies & wavelengths of various Electromagnetic Radiation. **(15)**

**OR**

**Q.1** Define A.C and D.C, Faradic & Galvanic currents currents ? Explain therapeutic & Physiological properties of Short & Long Pulse Duration Interrupted Direct current **(15)**

**Section -B**

**Q.1 Write Short Notes. (4 out of 5) (5 Marks each)** **(20)**

- (a) Electro-Magnetism & Electro-Magnets
- (b) Thermionic Valves
- (c) Transformer
- (d) Half wave & full wave rectification
- (e) Environmental Currents