

**A**

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**BACHELOR OF PHYSIOTHERAPY (B. P. T.)**  
**EXAMINATION : JUNE - 2023**  
**FIRST YEAR**

**Subject: Fundamentals of Electrotherapy (BPT- 21105)**

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**Date: 09/06/2023**

**Total Marks: 80**

**Time: 2.00 pm To 5.00 pm**

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**SECTION – A**

**Q.1 Answer the following questions in short (Any five) (15)**

- a. Define capacitance and state its unit.
- b. Difference between faradic and galvanic current.
- c. Resting membrane potential
- d. Modes of heat transfer.
- e. Principle of PWB.
- f. Lewis-Hunting reaction

**Q.2 Answer the following questions (Any Five) (35)**

- a. Write in detail about properties of magnet. Also explain different types of magnet.
- b. What is electromagnetic spectrum?
- c. Define electric shock. Methods to prevent it.
- d. write in detail about physiological effects and methods of application of hydro-collateral pack.
- e. Explain physiological effects of cryotherapy with uses.
- f. Describe in detail about luminous IRR.

**SECTION – B**

**Q.3 Answer the following questions in detail (Any one) (15)**

- a. Write physical characteristics of UVR. Write about production of UVR.
- b. Explain in detail about IFT; write physiological effects, indications, contraindications of it. Add a note on beat frequency and draw a neat labelled panel diagram.

**Q.4 Answer the following questions in detail (Any one) (15)**

- a. Describe Contrast bath and explain its physiological and therapeutic effects. Write a note on technique of application.
  - b. Explain in detail about production and working of SWD with panel diagram. Write a note on indications, contraindications and uses of SWD.
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