

TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF PHYSIOTHERAPY (B. P. T.)
EXAMINATION : MARCH - 2023
FIRST YEAR

Subject: Fundamentals of Electrotherapy (BPT- 21105)

Date: 10 /03/2023

Total Marks: 80

Time: 10.00 am to 1.00 pm

SECTION – A

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

- a. Discuss methods to reduce skin resistance.
- b. Modes of heat transfer.
- c. Enumerate properties of Magnet.
- d. Ohms Law
- e. What is Earthing and its importance
- f. Eddy currents.

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

- a. Define electric shock. Methods to prevent it.
- b. Physiological effects of faradic current.
- c. Describe the properties of IFT with a neat labeled panel diagram.
- d. Write about thermal and non thermal effects of ultrasound.
- e. Explain physiological effects of cryotherapy with uses.
- f. What is transformer and explain types of it.

SECTION – B

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

- a. Explain in detail about production and working of SWD with panel diagram. Write a note on indications, contraindications and uses of SWD.
- b. Write in detail about production of ultrasound. Explain methods of testing ultrasound.

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

- a. Discuss physiological effects of superficial heat. Methods of application of paraffin wax. Write merits and demerits of paraffin wax bath.
- b. Classify low frequency currents. Describe different wave forms of faradic current. Add note on indications and contraindications of the same. Draw and label panel diagram of electrical stimulator.