

**RAN-2106000302040002****Second Year Bachelor of Physiotherapy****Examination September - 2025****Electrotherapy (New)****Time: 3 Hours]****[Total Marks: 80****સૂચના : / Instructions**

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the details of signs on your answer book

Name of the Examination:

Second Year Bachelor of Physiotherapy

Name of the Subject :

Electrotherapy (New)

Subject Code No.: 2106000302040002

Seat No.:

Student's Signature

Section - I

- Q. 1.** Describe in detail about the production of Interferential currents along with description of different placement techniques and indications and contraindications. (10)

OR

- Q. 1.** Describe the process of production of LASER in detail, along with brief outline of different types of LASERS.

- Q. 2. Short Essay (Any 3 out of 4) (15)**

- Describe the Indications and contraindications of TENS.
- Describe the process of recording SD curve for Median nerve injury.
- Brief out process of recording nerve conduction study.
- Define Diadynamic currents and brief out different types.

- Q. 3. Short Answers (Any 5 out of 6) (15)**
- a. Action potential.
 - b. Types of electrodes used in EMG study.
 - c. Briefly out rehabilitation box current therapy.
 - d. What is accommodation?
 - e. Briefly explain high voltage pulsed galvanic stimulation.
 - f. What is Iontophoresis technique.

Section - II

- Q. 1. Describe in detail, the process of production of UVR along with different modes of application. Explain indications and contraindications for the same. (10)**

OR

- Q. 1. Describe in detail about the production, physiological effects and different ways of application of ultrasound therapy. (10)**
- Q. 2. Short Essay (Any 3 out of 4) (15)**
- a. Briefly explain process of production of short wave diathermy.
 - b. Detail the technique of application of contrast bath.
 - c. Describe the process of production of IRR along with types and effects.
 - d. Different techniques of application of paraffin wax bath therapy.
- Q. 3. Short Answers (Any 5 out of 6) (15)**
- a. Uses of Pulsed Electromagnetic Energy.
 - b. What is Microwave therapy.
 - c. What is hydrotherapy technique.
 - d. Mark Space Ratio.
 - e. Combination therapy.
 - f. What is EMG biofeedback.
-