



**RAN-4005**

**Second Year B. Physiotherapy Examination**

**March / April - 2019**

**Electrotherapy**

**Time: 3 Hours ]**

**[ Total Marks: 40**

**સૂચના : / Instructions**

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 B. Physiotherapy**

Name of the Subject :

☛ **Electrotherapy**

Subject Code No.:

**4 0 0 5**

Seat No.:

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Student's Signature

**Section: I**

- Q.1 What is SD curve? Different types of SD curve. How it helps in diagnosis of lower motor neuron type of lesion? **(10)**
- Q.1 Define iontophoresis. Discuss the indications of Iontophoresis based on the drugs used and its techniques of application. **(10)**
- Q.2 **Write Short Notes. (Three Out of Four)** **(15)**
1. Physiological effects of faradism
  2. Indications of TENS
  3. Types of electrodes used in IFT
  4. Pain-gait theory
- Q.3 **Write Short Notes. (Five Out of Six)** **(15)**
1. Galvanic current
  2. Uses of biofeedback
  3. Motor unit
  4. Duty cycle

5. Faradic footbath
6. Chronaxie and Rheobase

### Section -II

- Q-1 Write Long essay (One out of two) 10**
1. Define Ultrasound. Explain physiological and therapeutic effects of ultrasound.
  2. Write in detail about Microwave Diathermy and its therapeutic uses.
- Q-2 Write short essay (Three out of four) 15**
1. Coherence
  2. Types of IRR generators
  3. PEME
  4. Phonophoresis
- Q-3 Write short answers (Five out of six) 15**
1. Vapocoolant spray
  2. Composition of paraffin wax
  3. Cross fire method in SWD
  4. Buoyancy
  5. Lewis Hunting reaction
  6. Therapeutic tunnel