

Sem-3 BL-2  
BC 2018  
Batch

# P P SAVANI UNIVERSITY

Third Semester of B.P.T. Examination

July-August 2021

SPPT2020 Electrotherapy-I

06.08.2021, Friday

Time: 10:00 a.m. To 1:00 p.m.

Maximum Marks: 70

**Instructions:**

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

**SECTION - I**

**Q - 1 Essay Question(Any One) [10]**

- (i) Explain about the indications, contraindications and methods of application of Interrupted direct current.
- (ii) Define Bio-feed back. Describe in detail, the principles and uses of Bio-feed back.

**Q - 2 Short Note(Any Two) [10]**

- (i) Motor point and Motor unit.
- (ii) Chronaxie and Rheobase.
- (iii) Physiological effects of Interferential Therapy.

**Q - 3 Very Short Notes(Any Five) [15]**

- (i) Recording electrodes for electromyography
- (ii) Draw a diagram of Propagation of Action Potential in a muscle.
- (iii) Techniques of Application of Group Muscle stimulation.
- (iv) Faradism under pressure
- (v) Dangers of Interrupted Galvanic Current.
- (vi) What is NMES?
- (vii) Nerve Conduction Velocity studies.

**SECTION - II**

- Q - 1      Essay Question(Any One)      [10]**
- (i)      Define Pain? What are the types of pain? Describe the gate control theory of pain?
- (ii)      Define TENS. Types of TENS, Dosage parameters, Physiological & Therapeutic effects of TENS.
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- Q - 2      Short Note(Any Two)      [10]**
- (i)      Therapeutic effects of High Voltage Pulsed Galvanic Current
- (ii)      Strength - Duration curve.
- (iii)      Methods of application of Iontophoresis.
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- Q - 3      Very Short Notes(Any Five)      [15]**
- (i)      Therapeutic effects of Faradic current.
- (ii)      Russian Current
- (iii)      Faradic Galvanic Test.
- (iv)      Types of electric current.
- (v)      Principles of Mechanical Spinal Traction.
- (vi)      Indications of IFT.
- (vii)      Ions used in Iontophoresis.

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