

sem 3 Bl 3

# P P SAVANI UNIVERSITY

Third Semester of B.P.T. Examination

JANUARY 2022

SPPT2020 Electrotherapy-I

Time: 9:30 a.m. To 12:30 p.m.

Maximum Marks: 70

11.01.2022, Tuesday

**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) Discuss the graphs of SD Curve and its indications.
- (ii) Describe the effects and uses of Faradic Current.

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

- (i) Explain Faradism under tension
- (ii) What is Faradic Galvanic Test.
- (iii) Different ionic indications of Iontophoresis.

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

- (i) Motor unit.
- (ii) Faradic Foot Bath.
- (iii) Cervical spine traction indications.
- (iv) Types of EMG and its Uses.
- (v) Dangers of Direct Current.
- (vi) Conduction of nerve impulse.
- (vii) Diadynamic Current

**SECTION - II**

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

- (i) Define Bio-feedback. Describe in detail, the principles and uses of Bio-feed back.
- (ii) Explain about Quadripolar and Bipolar IFT, its methods of applications, indications and contraindications.

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

- (i) Explain types of TENS.
- (ii) Explain propagation of action potential in a nerve.
- (iii) Nerve accommodation.

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

- (i) Micro currents
- (ii) Resting Membrane Potential of nerve and muscle.
- (iii) Patient preparation for Therapeutic current application.
- (iv) Dermatomes
- (v) Indications of HVPGCS.
- (vi) Russian Currents
- (vii) Motor points of facial muscles.

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