

P P SAVANI UNIVERSITY

Third Semester of B. P.T. Examination

January 2020

SPPT2020 Electrotherapy-I

24.01.2020, Friday

Time: 9:00 a.m. To 12:00 noon

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) Define Faradic current. Write briefly about modified Faradic currents and discuss their physiological effects. Add a note on surging of Faradic current?
- (ii) Write about SD Curve: Method of plotting, Characteristics, Advantages, Disadvantages.
- Q - 2 Short Note (Any Two) [10]**
- (i) Physiological & Therapeutic Effect of Galvanic Current
- (ii) Faradism Under Pressure & Contra Indication of Faradic Current
- (iii) Resting and Action Membrane Potential
- Q - 3 Very Short Notes (Any Five) [15]**
- (i) Classification of Nerve Injury
- (ii) Iontophoresis
- (iii) Commonly used Ions (Drugs) for pain
- (iv) Explain brief about Pelvic floor Muscle reeducation
- (v) Wallerian Degeneration
- (vi) Motor Unit and Motor Point
- (vii) FG Test

SECTION - II

- Q - 1 **Essay Question(Any One)** [10]
- (i) Define TENS and discuss Pain control Theories of it.
 - (ii) Define I.F.T and discuss therapeutic effects and uses of it.
- Q - 2 **Short Note(Any Two)** [10]
- (i) Types of TENS.
 - (ii) Electrodes in I.F.T.
 - (iii) High voltage pulsed Galvanic stimulation.
- Q - 3 **Very Short Notes(Any Five)** [15]
- (i) Principles of Biofeedback.
 - (ii) Indications and contraindications of Microcurrent.
 - (iii) Uses of Biofeedback.
 - (iv) Methods of application of Microcurrent.
 - (v) Principles of Lumber Traction.
 - (vi) Functional Electrical Stimulation.
 - (vii) Indications and contraindications of cervical Traction.
