

P P SAVANI UNIVERSITY

Third Semester of B.P.T. Examination
October 2021

SPPT2020 Electrotherapy-I

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

06.10.2021, Wednesday

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 IFT, Principle of Production of IFT and Therapeutic effects of IFT.
- (ii) Explain the gate control theory of pain?
- Q - 2 Short Note(Any Two) [10]**
- (i) Explain Faradism under pressure
- (ii) What is Faradic Galvanic Test?
- (iii) What are the indications of Strength Duration Curve?
- Q - 3 Very Short Notes(Any Five) [15]**
- (i) Define motor unit.
- (ii) Write a note on Iontophoresis.
- (iii) Indications of Mechanical Spinal Traction.
- (iv) Write a note on Functional Electrical stimulation.
- (v) Dangers of Direct Current.
- (vi) Russian currents.
- (vii) Write Electrodes used in EMG

SECTION - II

- Q - 1 Essay Question(Any One) [10]**
- (i) Define Bio-feed back. Describe in detail, the principles and uses of Bio-feed back.
- (ii) Describe strength-Duration curve. Factors affecting S-D Curve.
- Q - 2 Short Note(Any Two) [10]**
- (i) Explain types of TENS.
- (ii) Explain propagation of action potential in a nerve.
- (iii) Therapeutic effects of Surged Faradic currents.
- Q - 3 Very Short Notes(Any Five) [15]**
- (i) Commonly used Ions (Drugs) for pain in Iontophoresis.
- (ii) Resting Membrane Potential of nerve and muscle.
- (iii) Patient preparation for Therapeutic current application.
- (iv) Faradic Galvanic Test.
- (v) Indications of HVPGCS.
- (vi) Chronaxie and Rheobase
- (vii) Principles of Mechanical Spinal Traction.
