

**Second Year BPT Degree Supplementary Examinations**  
**March 2019**

**Electrotherapy**

**(2016 Scheme)**

**Time: 3 hrs**

**Max marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(2x15=30)**

1. Define TENS. Explain the types of TENS. Enumerate the indications and contraindications of TENS. (2+5+5+3)
2. Define Piezo electric effect. Explain the production of ultrasound. Add a note on the dosage parameters and the dangers of ultrasound. (2+8+2+3)

**Short Essays**

**(4x10=40)**

3. Define beat frequency. Explain the principles of production of interferential therapy (IFT). Indicate the electrode placement in IFT. (2+4+4)
4. Define pain. Explain the pain gate control theory. (2+8)
5. Explain the test dose calculation for ultraviolet radiation (UVR). Describe the different methods of UVR application with its therapeutic effects. (3+7)
6. Explain the method of application to stimulate various muscle groups using faradic foot bath. List the indications and contraindications for faradic foot bath. (6+4)

**Short Answers**

**(10x3=30)**

7. Draw the circuit diagram of short wave diathermy (SWD).
8. Explain about sinusoidal currents.
9. Explain the properties of magnetism.
10. Uses of Russian currents.
11. List the methods of application of wax therapy.
12. What are micro and macro currents
13. Illustrate the construction of EMG equipment.
14. Method of application of fluidotherapy.
15. Define biofeedback. Give any two uses of biofeedback
16. Explain HPGS