

**Second Year BPT Degree Examinations September 2018**

**Electrotherapy  
(2016 Scheme)**

**Time: 3 hrs**

**Max marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(2x15=30)**

1. Describe the production of ultrasound (US). Explain dosage parameters, application procedure and the associated dangers of US. (5+2+5+3)
2. Define rheobase and chronaxie. Explain the method of plotting a strength duration curve. With illustrations explain the characters of a normal innervated, partially innervated and a complete denervated muscle (2+2+5+6)

**Short Essays**

**(4x10=40)**

3. Explain the methods of application of cryotherapy. Add a note on the physiological and therapeutic effects of cryotherapy. (5+5)
4. Define Faradic current. Enumerate the physiological and therapeutic effects of Faradic current. (2+3+5)
5. Explain the types of TENS. Describe the mechanism to relieve acute and chronic pain using TENS. (2+4+4)
6. What is hyperhydrosis. Explain the principle of iontophoresis. Describe the treatment for hyperhydrosis using iontophoresis. (2+3+5)

**Short Answers**

**(10x3=30)**

7. Explain in detail the contraindications of short wave diathermy (SWD)
8. What are rebox currents
9. Describe the method of application of moist heat therapy.
10. List the composition of wax bath therapy unit.
11. Explain the types of transformers.
12. Explain cyclotherm and its therapeutic uses.
13. Define LASER. List the safety precautions while using LASER.
14. Describe the physiotherapy management of psoriasis using UVR.
15. Principles of biofeedback
16. Explain contrast bath method

\*\*\*\*\*