

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

**Electrotherapy**  
**(2010 Scheme)**

**Time: 3 hrs****Max marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays****(2x10=20)**

1. Define SWD. Explain the principles of production of SWD. Mention its physiological and therapeutic effects.
2. Define SD curve. Explain the methods of plotting SD curve in innervated muscle, partially innervated muscle and completely denervated muscle. Add a note on Chronaxie and Rheobase

**Short notes****(10x5=50)**

3. Faradic type current – its physiological and therapeutic effects
4. Diode and triode valves
5. Instrumentation of EMG
6. Diadynamic currents
7. Cryotherapy – physiological and therapeutic effects
8. Fuse
9. Methods of application of wax therapy
10. Whirlpool bath – indications & contraindications
11. UVR – dosage
12. TENS and its types.

**Answer briefly****(10x3=30)**

13. Electromotive force
14. Near field and far field
15. Hyperhydrosis
16. Types of IRR generators
17. Define action potential
18. Parameters of IFT
19. FG test
20. PUVA
21. Electromagnetic induction
22. Russian current