

Second Year BPT Degree Supplementary Examinations, October 2016

## ELECTROTHERAPY (2010 Scheme)

**Time : 3 hrs**

**Max marks : 100**

- Answer all questions
- Draw diagrams wherever necessary

### Essays

**(2x10=20)**

1. Explain in detail the production of LASER. Add a note on the therapeutic effects of LASER.
2. What are faradic currents. Explain in detail the therapeutic effects of faradic current.

### Short notes

**(10x5=50)**

3. List the methods of application of wax therapy. Explain any two in detail.
4. Explain in detail the various contraindications of TENS
5. Define high voltage pulsed galvanic stimulation and its physiological effects.
6. Explain the working of short wave diathermy with a neat labeled circuit diagram.
7. Define beat frequency. Describe static and dynamic interference system in IFT
8. What are Russian currents. Explain its uses.
9. Luminous and non luminous infra red ray generation.
10. Explain the physiological effects and techniques of cryotherapy application.
11. Pain gate control theory
12. Principles and uses of whirlpool therapy.

### Answer briefly

**(10x3=30)**

13. Photosensitization in ultra violet radiation.
14. Biofeedback.
15. Cross fire method in short wave diathermy.
16. Fuse and its importance.
17. Explain piezoelectric effect
18. Types of Valves
19. With a neat labeled diagram illustrate the construction of an electromyography unit
20. List the advantages and disadvantages of strength duration curve
21. What are rebox currents.
22. Explain sinusoidal currents

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