



**Second Year BPT Degree Examinations - October 2013**

**ELECTROTHERAPY**

**Time : 3 hrs**

**Max marks : 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(2x10=20)**

1. Discuss physiological and therapeutic effects of short wave diathermy.
2. Explain in detail the production of LASER. Add a note on the therapeutic effects of LASER

**Short notes**

**(10x5=50)**

3. Define low frequency currents. Explain therapeutic effects of interrupted direct current.
4. Define TENS. Explain with the help of a diagram the placement of electrodes and parameters for acute low back pain.
5. Describe about hydrocollator packs.
6. Any four methods of cold application.
7. Define Ohms law and explain the effective resistance of a circuit if the resistors are connected in parallel.
8. Explain the thermal effects of ultrasound therapy.
9. Indications and contraindications of interferential therapy.
10. Name the methods of application of wax therapy. Add a note on the Indication and contraindications of wax therapy.
11. Describe propagation of action potential.
12. Effects of whirlpool therapy.

**Answer briefly**

**(10x3=30)**

13. Contrast bath method
14. Motor unit.
15. H.V.P.G.S.
16. Standing waves in ultrasound
17. Fuse and its importance.
18. Diadynamic currents.
19. Types of infrared radiation.
20. Faradism under pressure.
21. Piezoelectric effect.
22. Bio feedback.

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