

**ELECTROTHERAPY  
(2010 Scheme)**

**Time : 3 hrs**

**Max marks : 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(2x10=20)**

1. Define pain. Explain how transcutaneous electrical nerve stimulation (TENS) helps in pain modulation.
2. Define reverse piezoelectric effect. Explain in detail the production of ultrasound.

**Short notes**

**(10x5=50)**

3. Define contrast bath and brief about its method of application.
4. Explain the therapeutic effects of faradic current.
5. List out the methods of application of wax and explain any two in detail.
6. What is strength duration curve. Discuss its clinical significance in diagnosis.
7. Indications and contraindications of whirlpool therapy.
8. Explain the therapeutic uses of microwave diathermy.
9. What is LASER. Explain the properties of LASER.
10. Physiotherapy management of psoriasis using ultraviolet radiation.
11. Describe the various techniques of cryotherapy application
12. Explain the application of Iontophoresis in the treatment of wound healing

**Answer briefly**

**(10x3=30)**

13. Faradic - galvanic test and its significance
14. What is biofeedback.
15. Parameters of burst TENS
16. Explain cyclotherm
17. List out the methods to prevent electrical hazards in the physiotherapy department.
18. Define tissue impedance. List the methods to reduce skin resistance.
19. Explain beat frequency in interferential current therapy.
20. What is coupling media. Give examples.
21. Accommodation.
22. Therapeutic uses of fluidotherapy.

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