

**Second Year BPT Degree Regular/Supplementary Examinations
June 2021**

**Electrotherapy
(2016 Scheme)**

Time: 3 hrs

Max marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw diagrams wherever necessary

Essays (2x15=30)

1. Define Faradic current. Enumerate the physiological and therapeutic effects of Faradic current. List the indications and contraindications of Faradic current. (2+3+5+3+2)
2. Define UVR. Types of UVR generators. Explain production of UVR Kromayer lamp. Add a note on PUVA apparatus. (2+5+5+3)

Short Essays (4x10=40)

3. Explain reverse piezo electric effect. Explain in detail the production of ultrasound. (2+8)
4. Define LASER. Explain the dosage of LASER. List the safety precautions while using LASER. (2+5+3)
5. Define and explain beat frequency with a neat diagram. Explain static and dynamic interference. (2+2+3+3)
6. Define Pain. Explain the ascending and descending pathways of pain and the Pain Gate Control theory. (2+4+4)

Short Answers (10x3=30)

7. Principle of iontophoresis. Name any one ion used in iontophoresis to treat inflammation.
8. Explain action potential.
9. Explain the working of a fuse.
10. The dangers of micro wave diathermy
11. Define rheobase and chronaxie
12. Explain any two techniques of application of cryotherapy.
13. Explain stable and unstable cavitations
14. What are Russian currents
15. Wavelength and frequency of short wave diathermy.
16. Explain tissue impedance
