

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA- 506 002**

BPT SECOND YEAR DEGREE EXAMINATIONS: JANUARY 2026

**ELECTROTHERAPY-I
(Low, Medium Frequency)**

Time: 3 Hours

Max Marks: 80

Note: Answer all questions

Draw diagrams wherever necessary

Write an essay on the following:

2 X 10 = 20

1. a) Define Faradic Current. Write briefly about modified currents and discuss the physiological effects. (2+4+4)

OR

- b) Define Ionization. Discuss in detail the effects and techniques of application of Ionization. (2+4+4)

2. a) Explain in detail about production in interrupted Direct Current. Add a note on therapeutic effects of interrupted Direct Current. (5+5)

OR

- b) Define TENS and Explain Pain Gate Theory along with diagram (2+8)

Write short note on the following:

8 X 5 = 40

3. Accommodation.
4. Electromyography.
5. Chronaxie.
6. S.D. Curve.
7. Resting Membrane potential.
8. High Voltage Pulsed Galvanic Stimulation.
9. Characteristics of Denervated muscle.
10. Faraday's laws.

Write briefly on the following:

10 X 2 = 20

11. Ions.
12. Types of Electric Current.
13. Orthodromic Condition.
14. TENS.
15. Motor Point.
16. Capacitance.
17. Transformer.
18. Joule's Law.
19. Compound Motor Unit Action potential.
20. Factors of Resistance.
