Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination - 26-May-2025

Time: Three Hours Max. Marks: 100 Marks

ELECTROTHERAPY (RS-5) Q.P. CODE: 2741

Your answers should be specific to the guestions asked Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Second Question choice)

 $2 \times 10 = 20 \text{ Marks}$

- Define ultrasound therapy. Explain in detail about the thermal and non-thermal effects of ultrasound. Add a note on dangers of ultrasound.
- Explain wax therapy. Indications, contraindications and methods of application.

Define iontophoresis. Add a note on principles and iontophoresis and contraindications.

SHORT ESSAYS (Question No.3 & 12 choice)

 $10 \times 5 = 50 \text{ Marks}$

3. Microwave diathermy.

OR

Define transformer and its functions.

- Principles of production of laser.
- 5. Difference between conductor and insulator.
- 6. Fluidotherapy.
- Contrast bath.
- 8. Electromagnetic spectrum.
- 9. Principles of NMES.
- 10. Explain pain gate control theory in detail.
- 11. EMG.
- 12. Define fuse, its types and principles.

OR

Add a note on FG test.

SHORT ANSWERS $10 \times 3 = 30 \text{ Marks}$

- 13. Ohm's law and its application in physiotherapy.
- 14. Micro and Macro shock.
- 15. Lewis Huntington's phenomenon.
- 16. Electric shock.
- 17. Phonophoresis.
- 18. Piezoelectric effect and crystals in UST.
- 19. Duty cycle.
- 20. Motor unit with neat labelled diagram and motor point.
- 21. Half value depth and coupling media.
- 22. Name two neurotransmitters of peptide and amino acid class (Excitatory and Inhibitory actions).
