

# Rajiv Gandhi University of Health Sciences, Karnataka

## II Year B.P.T Degree Examination – 17-Nov-2025

**Time: Three Hours**

**Max. Marks: 100 Marks**

### **ELECTROTHERAPY (RS5)**

**Q.P. CODE: 2741**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

#### **LONG ESSAYS (Second Question choice)**

**2 x 10 = 20 Marks**

1. Define LASER. Explain the principle of production of LASER and its methods of application.
2. Define pain. Write the various theories of pain and enumerate the pain gate control theory in detail.

**OR**

Define strength duration curve. Explain the method of plotting the curve and interpretation of the curve in various nerve lesions.

#### **SHORT ESSAYS (Question No.3 & 12 choice)**

**10 x 5 = 50 Marks**

3. Describe tissue importance and techniques for lowering skin resistance.

**OR**

Define cryotherapy and write note on various methods of its application.

4. Types of TENS
5. Explain the principles of application of Parafin Wax Bath.
6. Describe any two methods of production of UVR (Ultra-violet radiation).
7. Define electrode coupling and characteristics of an ideal couplant.
8. Physiological and therapeutic effects of SWD
9. Explain the principle of Ultrasound production.
10. Define diadynamic current and enumerate its types.
11. Describe capacitors.
12. Define shock and write note on safety precautions to prevent shock.

**OR**

Propagation of action potential.

#### **SHORT ANSWERS**

**10 x 3 = 30 Marks**

13. Define microcurrents.
14. Define Ohm's law.
15. What is iontophoresis and its agents?
16. Define electromagnetic spectrum.
17. Define Chronaxie and Rheobase.
18. What is Half value distance?
19. What is Lewis Hunting reaction?
20. Define Fuse.
21. What is Microshock and macroshock?
22. Define Russian currents.

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