



# Rajiv Gandhi University of Health Sciences, Karnataka

II Year **B.P.T.** Degree Examination - OCT-2019

Time: Three Hours

Max. Marks: 100 Marks

## **ELECTROTHERAPY**

**(RS-3 & RS-4)**

**Q.P. CODE: 2712**

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

### **LONG ESSAYS (Answer any Two)**

**2 x 10 = 20 Marks**

1. Describe the methods of production heat by short wave diathermy
2. Write in detail the principles of production of interferential currents
3. **Describe** the various methods of pain **modulation**

### **SHORT ESSAYS (Answer any Twelve)**

**12 x 5 = 60 Marks**

4. Construction and types of condensers
5. Physiological effects of faradic current
6. Therapeutic uses of wax therapy
7. Cathodal galvanism
8. Mechanical effects of ultrasound
9. Methods of application of electrodes in TENS
10. Dangers of ultra violet radiation
11. Contraindications for Cryotherapy
12. Iontophoresis for the treatment of hyperhydrosis
13. Types of infra red radiation lamps
14. Properties of LASER
15. Indications and contraindications **for whirlpool** bath
16. Physiological effects of microwave diathermy
17. Faradic - Galvanic test

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

18. Define Ohm's law
19. Define motor point
20. Mention any four absolute contraindications **for** neuromuscular electrical stimulation
21. Define phonophoresis
22. Define rheobase and chronaxie
23. Direct Piezo electric effect
24. Define burst TENS
25. Define first degree erythema with application of ultra violet radiation
26. Parameters of pulsed electromagnetic energy
27. Parameters of diphase fixe