

**Rajiv Gandhi University of Health Sciences, Karnataka****II Year B.P.T Degree Examination SEP-2018****Time: Three Hours****Max. Marks: 100 Marks****Electrotherapy (RS-5)****Q.P. CODE: 2741****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. Define LASER. Explain the various methods of production of LASER and its physiological and therapeutic effects.
2. Define TENS. Enumerate and describe various types of TENS and Its dosage parameters in detail.
3. Describe Strength Duration curve in detail and its interpretation in nerve lesions.

**SHORT ESSAYS (Answer any Twelve)****12 x 5 = 60 Marks**

4. Define electric shock and write about various types of electric shock.
5. Moist heat therapy
6. Ultrasound Dosage Calculation
7. Cathodal Galvanism
8. Calculation of EI, E2, E3, E4 dosages in UVR
9. MWD its indications, contraindications
10. Explain the principle of Latent heat and add a note on Wax therapy.
11. Explain the principles of IFT application,
12. Whirlpool bath
13. Define PEMF its principles and uses.
14. Whirlpool bath
15. Define Cryotherapy. Add a note on various methods of application of cryotherapy with its physiological effects.
16. Explain the characters of partially denervated muscle,
17. Define Ohms law and its application to DC/AC.

**SHORT ANSWERS****10 x 2 = 20 Marks**

18. Name the parameters of TENS
19. Phonophoresis and its agents
20. Mention only units of Electricity.
21. Motor unit and synapse
22. Define Macrocurrents.
23. Mention the different types of electrodes used in SWD.
24. Piezoelectric effect
25. Define Russian current.
26. Uses of Condensers
27. Define Magnetic stimulation.

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