

# Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – SEPT 2017

**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. What is Piezzo electric effect? Describe the production of ultrasound with a neat diagram. Mention the indications and contraindications of ultrasound.
2. Describe the production of LASER. Write a note on the dosage of LASER.
3. Describe the production of IRR. Add a note on dosage and dangers of IRR.

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

**12 x 5 = 60 Marks**

4. Cavitation in ultrasound
5. Describe the cable method of SWD.
6. Physiological and therapeutic effects of MWD
7. Explain the principle of biofeedback.
8. Mechanism of propagation of action potential
9. Indications and contraindications of IRR
10. Physiological and therapeutic effects of UVR
11. Methods of application of wax
12. Placement and spacing in SWD
13. Principles of fluidotherapy
14. Therapeutic uses and contraindications of Moist heat therapy
15. Indications and contraindications of contrast bath
16. Electrode placement in IFT
17. Dosage of TENS

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

18. What is standing wave in ultrasound?
19. What is magnetron?
20. Define Rheobase and Chronaxie.
21. What is attenuation?
22. Methods of application of wax bath
23. Name dangers of UVR
24. FG test
25. Beat frequency in IFT
26. Accommodation
27. Sinusoidal current

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