

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - APRIL-2019

Time Three Hours

Max. Marks: 100 Marks

Electrotherapy (RS-3 & RS-4) Q.P. Code: 271.2

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 Medium Frequency Currents, Explain in detail about Static and Dynamic interference system, therapeutic effects of Interferential therapy.
2. Discuss about the production of Micro Wave Diathermy (MWD) and the physiological effect of MWD.
3. What is shock? Explain about earthing techniques, electric shock, its safety precautions and its management.

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Define Ionization and explain the effects of various ions used in medical ionization.
5. Describe condenser field method of Short-wave diathermy.
6. Explain in brief about Electromagnetic Spectrum and its properties.
7. What is electrical burn and give its management.
8. Write about paraffin wax bath, uses and indications.
9. Explain about FG test and its uses.
10. State the method of plotting Strength-Duration Curve and explain the Characteristic of partially and completely denervated muscle.
11. Give a brief note on Non-thermal effects of Ultrasound
12. Explain about types of LASER.
13. What is Moist Heat therapy? Explain in brief about Hydrocollator pack application.
14. Enlist the indications and contra indications of infrared radiation,
15. What is Lewis Hunting Response and give its therapeutic significance.
16. Give the physiological effects of Transcutaneous Electrical Nerve-Stimulation.
17. Describe physiological effects of Faradic Current.

SHORT ANSWERS

10 x 2 = 20 Marks

18. Define fuse and state two uses.
19. What is Electromagnetic Induction?
20. What is Piezoelectric effect and how it is used in electro therapy?
21. What is Nerve Conduction Velocity?
22. What is PUVA?
23. What is Reflex type current?
24. Mention methods of indirect application of ultrasound.
25. Define fluidotherapy.
26. Mention the properties of LASER.
27. Define Axonotmesis.

**51E*