

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.P.T Degree Examination – 10-Jan-2022

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
(QP contains two pages)

LONG ESSAYS (Second Question choice)

2 x 10 = 20 Marks

1. Describe in detail about the physiological effects and therapeutic effects of faradic current
2. 45 years old female reports with complaints in low back pain area. While taking history patient reported the pain since past three months and there was no obvious history of any injury and no history of radiating to any other parts of the area. The pain is constant since onset. While interacting the patient seems to be so anxious about her pain and loves to talk about the pain to people around
 - a) List all possible electro therapeutic modalities that might be indicated for this case
 - b) Choose appropriate modality from the above list
 - c) What will be the starting parameters you will use and how you will progress (based on number of days/patient symptoms)
 - d) Describe with a circuit diagram of the modality that you have seen
 - e) Other than the given information what extra information would have helped you to make a clear choice and what is the strategy that you will use for her anxiety

OR

Describe in detail about the thermal and non thermal effects of ultrasound. Add a note on phonophoresis

SHORT ESSAYS (Question No.3 & 12 choice)

10 x 5 = 50 Marks

3. Define Pain and explain Pain Gate theory
- OR**
- Describe about the Kromayer lamp
4. Write about the sensitizers and filters used in UVR
 5. Describe about the diode valve
 6. Discuss the various techniques of application of cryotherapy
 7. Using strength duration curve how will evaluate whether the muscle is partially or completely denervated. Explain
 8. Explain the physiological effects of TENS
 9. List the contraindications and dangers of SWD
 10. Define medium frequency currents. Explain the dosage parameters of interferential therapy
 11. Explain the technique of application of faradic foot bath
 12. Does muscle contraction with electrical stimulation differs from normal voluntary contraction of muscle. If yes, justify

OR

Explain the therapeutic effects of infra red rays

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SHORT ANSWERS

10 x 3 = 30 Marks

13. What is attenuation?
14. Define rebox current
15. What is pulsed electromagnetic energy?
16. What is resting membrane potential?
17. Define near field and far field with neat labeled diagram
18. List any three indications and contraindications of micro wave diathermy
19. Describe FG test
20. Difference between micro and macro currents
21. Describe sinusoidal and diadynamic currents
22. List the therapeutic uses and contraindications of whirlpool bath
