

**ELECTROTHERAPY-II
(High Frequency)**

Time: 3 Hours

Max Marks: 80

Note: Answer all questions

Draw diagrams wherever necessary

Write an essay on the following:

2 X 10 = 20

1. a) Techniques and applications of microwave diathermy, explain therapeutic effects and uses.

OR

- b) Explain pain gate mechanism therapeutic effects and uses of IFT.
2. a) write the production of ultrasonic energy and properties of ultrasound waves. Describe its biological effects.

OR

- b) Construction of Condenser along with charging and discharging. Write about Capacity.

Write a short note on the following:

8 X 5 = 40

3. Technique of application of UVR (Test and dose) indication and contraindication of UVR.
4. Effects of uses of cable method of SWD.
5. Physiological & therapeutic effects of cold therapy.
6. Explain different techniques and applications of ultrasound.
7. Explain thermal regulatory mechanism with physiological effects.
8. Explain principles and techniques of applications of laser.
9. Explain principles and types of transformers.
10. Define Oscillation. Explain damping and frequency of Oscillation.

Write briefly on the following:

10 X 2 = 20

11. Capacitor.
12. Therapeutic effects of direct current.
13. Principles of Inferential therapy.
14. Strength duration curve.
15. Choke coil.
16. Laws governing radiation.
17. Definition of acute and chronic pain.
18. Chemical and biological effects of ultrasound therapy.
19. Types of traction.
20. Type of filters in UVR.
