

# B.P.T. [2<sup>nd</sup> Prof.]

BF/2008/12

## Electrotherapy-II

M.M. : 90

Time : 3 Hours

### SECTION - A

All questions are compulsory. Answer to each question upto 5 lines in length. Each question carries 2 Marks. [20]

1. Fresnel zone.
2. Refraction.
3. Dipole rotation.
4. Magnetron.
5. Semiconductor diode LASER.
6. Electron 'Cloud' motion.
7. Transistor & Electromagnetic field.
8. Vapocoolant spray.
9. "Specific heat".
10. Ruby LASER.

### SECTION - B

Attempt any 8 questions. Answer to each question upto 2 pages in length. Each questions carries 5 Marks. [40]

1. Write pattern of heating in tissues by Microwave diathermy.
2. Write properties of LASER in detail.
3. Write a note on heat transfer in human body.
4. Describe patient's preparation for IFT(Interferential therapy).
5. Write a note on Action potential.
6. What is Intermittent compression therapy? Write uses of Intermittent compression therapy.
7. Write uses of EMG in physiotherapy.
8. Write a note on ethical aspects of use of electrotherapy.
9. What are the differences between Microwave and Shortwave diathermy.
10. Write different application techniques in therapeutic Ultrasound.
11. What is Biofeedback? Write the uses of Biofeedback in physiotherapy.
12. What are the different types of Cold therapy? Explain.

### SECTION - C

Attempt any 2 questions. Answer to each question upto 5 pages in length. Each questions carries 15 Marks. [30]

1. Write physiological and therapeutic effects of Short wave diathermy.
  2. Write physical properties of Ultrasound. What are the contraindications of Ultrasound.
  3. Write physiological effects of Cold.
  4. Write effects of LASER on the tissues. What are the contraindications of LASER.
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