

**THIRD YEAR B.P.T. DEGREE (SPECIAL SUPPLEMENTARY)
EXAMINATION, SEPTEMBER 2021**

Bachelor of Physiotherapy

Paper XIII—INSTRUMENTATION IN PHYSIOTHERAPY

Time : Three Hours

Maximum : 100 Marks

Section A

1. Define LASER. Describe the properties, principles of application, physiological effects, contraindications and dangers of LASER.

(2 + 2 + 2 + 2 + 2 =10 marks)

2. Explain in detail the machine circuit and patient circuit in Short Wave Diathermy.

(10 marks)

3. Write a short answers on :

- (a) Coupling media.
- (b) F-wave.
- (c) Phonophoresis.
- (d) S-D curve.
- (e) TENS.
- (f) Therapeutic effects of Infra Red Radiations.

(6 × 5 = 30 marks)

Section B

4. Explain the production of ultrasound in detail. Add a note on therapeutic effects of ultrasound.

(5 + 5 =10 marks)

5. Explain in detail about the physiological effects of Ultra Violet rays.

(10 marks)

6. Write a short note on :

- (a) Capacitor and its types.
- (b) Dangers of SWD.
- (c) F-G test.
- (d) Condenser field method.
- (e) Piezoelectric effect.
- (f) Laws governing Radiations.

(6 × 5 = 30 marks)