

[KB 914]

Sub. Code : 3147

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Fourth Semester/Fifth Semester

(Revised Regulations/Modified Regulations)

Paper II — ELECTROTHERAPY — II

(HIGH FREQUENCY)

Time : Three hours

Maximum : 100 marks

Answer Section A and B in separate answer books

SECTION A

1. Answer any TWO of the following (20)

(a) What is ultrasound therapy? What are its properties and effects on tissues?

(b) Discuss the different methods used in cryotherapy and its contraindications.

(c) Compare the advantages and disadvantages of heat in the form of paraffin wax and infra red rays.

2. Write short notes on any SIX

(6 × 5 = 30)

(a) Piezo-electric effect

(b) Kromayer lamp

(c) Dangers of ultrasound

(d) Moist heat

(e) Laws of radiation

(f) Oscillation

(g) Choke coil

SECTION B

3. Write any ONE of the following : (20)

(a) Discuss the physiotherapeutic modality for the following conditions and preventions – Acute Tennis Elbow; Periarthritis of left shoulder.

(b) Describe the physiological and therapeutic effects of short wave diathermy.

Write short notes on any SIX :

(6 × 5 = 30)

(a) LASER

(b) Ice packs

- (c) Radiant energy
- (d) Electromagnetic waves
- (e) Water bag technique
- (f) PUVA
- (g) Erythema.

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Answer Section A and B in separate answer books

SECTION A

1 Answer any TWO of the following : (20)

(a) What is LASER? Discuss its indications and contraindications.

(b) State the differences between pulsed and continuous ultrasound and its application and contraindication with suitable example.

(c) What is Infra Red Radiation? What are the types used in practice?

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Condenser

(b) Thermionic Emission

(c) Latent Heat

(d) Reverse Piezo-Electric effect

(e) Half-value distance

(f) Rectifier

(g) Fuse.

SECTION B

3. Write any ONE of the following : (20)

(a) Discuss the methods of application of short wave and their effects. What is the suitable method of application for treatment of Sinusitis?

(b) Discuss the dangers of ultrasound and how to prevent it.

4. Write short notes on any SIX : (6 × 5 = 30)

(a) Capacitance

(b) Coupling media

(c) Pulsed short wave

- (d) Interferential therapy
 - (e) Test dose
 - (f) Sensitisers
 - (g) Pain Gate Control theory.
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