

April-2000

[KB 908]

Sub. Code: 5131

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION

Third Semester/Fifth Semester

(Revised Regulations/Modified Regulations)

Paper II — ELECTROTHERAPY — I

(LOW AND MEDIUM FREQUENCY)

Time: Three hours Maximum : 100 marks

Answer Section A and B in separate answer books

SECTION A

Write in detail any ONE of the following (20)

(a) What is a condenser? Explain the charging, discharging and uses of it.

(b) Define Faradic type of current. Explain its physiological and therapeutic effect with the indication and contra-indication.

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

(a) Eddy current

(b) Chronaxie and Rheobase

- (c) Joule's Law
- (d) Triode valve
- (e) Refraction
- (f) Ohm's law
- (g) Capacitor in parallel and series connection
- (h) Vant Hoff's law.

SECTION B

3. Answer any ONE of the following (20)

(a) Write the selection of current, pulse shape, duration, indication and contra-indication for the following conditions.

(i) Axonotmesis of ulnar nerve one month duration

(ii) Intrinsic foot muscle paralysis

(iii) Facial Palsy.

(b) What is a strength-duration curve? Explain its various types with diagram.

Write short notes on any SIX of the following :
(6 × 5 = 30)

- (a) Faraday's Law of Electromagnetic induction
- (b) Nerve-conduction Test
- (c) Sinusoidal current
- (d) Motor points
- (e) Inverse square law
- (f) Fatigue Test
- (g) Properties of a magnet
- (h) Axonotmesis.

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Time : Three hours **DEC. 2000** Maximum : 100 marks

Answer Section A and B in separate Answer Books

SECTION A

1. Write in detail any ONE of the following :
(1 × 20 = 20)
 - (a) Define interrupted galvanism Explain its physiological and therapeutic effects.
 - (b) What is shock? Explain the causes, treatment and precautions for the shock.
2. Write short notes on any SIX :
(6 × 5 = 30)
 - (a) Fuse in your department
 - (b) Contra-indications for Electrical Stimulations
 - (c) Millammeter

- (d) Treatment for Neuroproxia of Radial nerve
- (e) Uses of Interferential therapy
- (f) Skin Resistance Lowering Tray
- (g) Properties of normal and denervated muscle
- (h) Faradic – Galvanic Test and its uses.

SECTION B

3. Write in detail any ONE of the following :
(1 × 20 = 20)
 - (a) Describe the technique of application of low frequency current in the treatment of oliematon's limb.
 - (b) Explain strength duration curve. Can you explain the nerve position from the day of onset to recovery in compression injury.
4. Write any SIX of the following :
(6 × 5 = 30)
 - (a) Uses of Electrical Stimulation
 - (b) Electric burns and its prevention
 - (c) Voltmeter and its uses
 - (d) Fatigue Test
 - (e) Nerve injuries
 - (f) Treatment for Bell's palsy
 - (g) Insulation
 - (h) Sinusoidal current.