

Electrotherapy-I

[New Scheme w.e.f. 2009]

Time: 3 Hours**Max Marks: 80****Note:** 1.) *Attempt all questions.*2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED**4.) **The Student must write Q.P. Code in the space provided on the Title page of the Answer Book.****SECTION - A****[40 Marks]**1. **Write short Notes up to 5 lines in length.****[5x3=15]**

- (a) Surface tension.
- (b) Ohm's law
- (c) Chronaxie
- (d) Intermittent direct current
- (e) Wallerian degeneration.

2. **Answer the following question upto 3 pages in length.****[10]**

Discuss the physiological and therapeutic effects of superficial heating modalities.

3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.****[15]**

- (a) Differentiate between alternating and direct current. Write in detail the therapeutic uses of both the currents.

OR

- (b) Discuss pain gate mechanism in detail.

SECTION - B**[40 Marks]**4. **Write short Notes up to 5 lines in length.****[5x3=15]**

- (a) Viscosity
- (b) Transformers
- (c) Capacitance
- (d) Neuropraxia
- (e) Burst TENS.

5. **Answer the following question upto 3 pages in length.****[10]**

Write in detail the precautions and dangers while using the electrical modalities.

6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.****[15]**

- (a) Define iontophoresis. Write in detail the principles of application, indications contraindications and therapeutic uses of iontophoresis

OR

- (b) Discuss in detail therapeutic application of UVR in physiotherapy with reference to techniques, indications, contraindications.