February 2010

[KW 970] **Sub. Code: 5351**

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
Fifth Semester
(Modified / New Modified Regulations)

Paper I – ELECTROTHERAPY – I
(LOW AND MEDIUM FREQUENCY)
Q.P. Code : 745351

Time : Three hours **Maximum : 100 marks**

Answer All questions
Draw suitable diagrams wherever necessary

I. Essays: **(2 x 15 = 30)**

1. Explain the physiological and therapeutic effects of interferential current. Describe the treatment parameters to achieve pain relief with interferential therapy.
2. What are the different types of electrical tests done in electrotherapy department?

II. Short Notes: **(10 x 5 = 50)**

1. Sub types of low frequency stimulating currents.
2. Modulation and classification of TENS.
3. Faradism under pressure.
4. Explain the contraindication of TENS.
5. Explain the physiological effects of interrupted direct current.
6. Explain in detail about reeducation of muscle action with faradic type current.
7. Explain the mechanism of Iontophoresis.
8. Explain in detail the electrical stimulation of nerves.
9. Pain gait theory.
10. Deltoid inhibition.

III. Short Answer: **(10 x 2 = 20)**

1. Law.
2. Define electric shock.
3. Define motor point.
4. What is the Low TENS?
5. What is the electromotive force (EMF)?
6. Fuse.
7. What is the Neurogenic pain?
8. What are the diadynamic currents?
9. Define biofeedback.
10. Burns.

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August 2010

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Time : Three hours **Maximum : 100 marks**

ANSWER ALL QUESTIONS
Draw suitable diagrams wherever necessary

I. Essays: **(2X15=30)**

1. Discuss in detail about the principles and techniques of Ionization and effects of various Ions.

2. Write about modified Faradic currents and discuss their Physiological effects.

II. Short Notes : **(10X5=50)**

1. Metal oxide rectifier.
2. Accommodation.
3. Dangers of direct current.
4. Transformer.
5. Fatigue Test.
6. Diode and Triode Valves.
7. Masking.
8. Saturday Night Palsy.
9. Volt Meter.
10. Construction and Working of Chokes.

III. Short Answers: **(10X2=20)**

1. Cosine Law.
2. Frad.
3. Motor Point.
4. Neuropraxia.
5. Define Fuse.
6. Carpel Tunnel Syndrome.
7. Properties of Magnets.
8. Low Tense.
9. Define Watt.
10. Ohm’s Law.

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