

FEBRUARY 2008

[KS 1006 (X)]

Sub. Code : 6218

BACHELOR OF PHYSIOTHERAPY
DEGREE EXAMINATION.

Third Year — Non-Semester Regulations

ELECTROTHERAPY — I & II

(LOW AND MEDIUM FREQUENCY AND HIGH
FREQUENCY)

Q.P. Code : 746218

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions : (2 × 15 = 30)

1. Describe the production of micro wave diathermy with diagram. Explain how the magnetron works and physiological and therapeutic effects of microwave diathermy. (5 + 5 + 5)

2. Describe the production of infra red radiation. Its types of generators and its working. Explain the physiological and therapeutic effects along with the uses in detail. (5 + 5 + 5)

II. Short notes : (10 × 5 = 50)

1. Electromagnetic spectrum.
2. Ionisation.
3. Tens.
4. Moving coil milliammeter.
5. Test dose.
6. Laser.
7. Tridymite formation.
8. Voltmeter.
9. Interferential therapy.
10. Lewis hunting reaction.

AUGUST 2008

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ELECTROTHERAPY — I & II

**(LOW AND MEDIUM FREQUENCY AND HIGH
FREQUENCY)**

Paper — I

Q.P. Code : 746218

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Essays : (2 × 15 = 30)**
- 1. Explain laser. Describe the properties, principles, physiological effects, contra-indications and dangers.**
 - 2. Explain the production of micro-wave diathermy with its**
 - (a) Physiological**
 - (b) Therapeutic uses**
 - (c) Indications**
 - (d) Contra-indications.**

AUGUST 2008

II. Short notes : (10 × 5 = 50)

1. Pain gate theory.
2. Paraffin wax.
3. Physiological effect of SWD.
4. Bell's palsy.
5. Magnetic field.
6. Uses of infra-red rays.
7. Non-luminous generators.
8. Modified faradic current.
9. Nerve conduction study.
10. Diode and triode value.

III. Write short answers : (10 × 2 = 20)

1. Joule's law.
2. Neuroproxia.
3. Sound.
4. Proton.
5. Effect of heating on nerves.

6. Snell's law.

7. Fuse.

8. Frequency and wavelength of SWD.

9. Chronoxie.

10. Grid.