

February 2010

[KW 971]

Sub. Code: 5352

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION

Fifth Semester

(Modified / New Modified Regulations)

Paper II – ELECTROTHERAPY – II

(HIGH FREQUENCY)

Q.P. Code : 745352

Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams wherever necessary

I. Essays: (2 x 15 = 30)

1. Describe in detail about the components of short wave diathermy circuit and add a note on its therapeutic effects.
2. Describe in detail about the method of calculation of dosage in ultraviolet radiation and explain the procedure of general irradiation technique using air-cooled lamp with suitable example.

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

1. Lewis hunting reaction.
2. Transformer.
3. Transcutaneous electrical nerve stimulation.
4. Valves.
5. Application of laser.
6. Luminous and non luminous generators.
7. Choke coil.
8. Law of inverse squares.
9. Application of cryotherapy.
10. Effects of therapeutic heating.

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

1. Wave length of infra red radiation.
2. Grotthus law.
3. Psoriasis.
4. Causes for burns following SWD.
5. Ohm's law.
6. Transformer.
7. Spot laser.
8. Lenz's law.
9. Define wave length and frequency.
10. Quick ice.

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. Differentiate Superficial and Deep Heat Modalities and explain about Deep Heat Modalities.
2. Discuss the different methods are used in Cryotherapy. Dangers and contraindications of Cryotherapy.

II. Short Notes :

(10X5=50)

1. Therapeutic effects of Infra Red Radiation.
2. Wax Bath.
3. Application of Laser.
4. Condenser.
5. Electro Magnetic Spectrum.
6. Pulsed Ultrasound.
7. Dangers of Ultra Violet Rays.
8. Electric ARC.
9. Types of IRR Generators.
10. Luminous and Non Luminous Generators.

III. Short Answers:

(10X2=20)

1. Heat Loss.
2. Eddy Current.
3. Properties of Magnet.
4. Cold Sensitivity.
5. Grotthus Law.
6. Lewis hunting reaction.
7. Spasticity.
8. Van't Hoff's Statement.
9. Impedance.
10. Treatment of Non Healing Ulcer.
