

February-2005

[KM 971]

Sub. Code : 5352

II. Short Questions :

(10 × 5 = 50)

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

(New Modified Regulations)

Fifth Semester

Paper II — ELECTROTHERAPY — II

(HIGH FREQUENCY)

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

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) List the various superficial and deep heating modalities. Discuss in detail the physiological and therapeutic effects of heat.

(2) Define LASER and briefly outline its therapeutic indications, contra-indications, efficacy and precautions advisable. Add a note on their principle of production and properties.

- (a) Microwave diathermy.
- (b) Law of inverse squares.
- (c) Types of UV lamps.
- (d) Erythema - development and appearance.
- (e) Coupling media in US.
- (f) Circulatory response and uses of cryotherapy.
- (g) Spacing of electrodes in SWD.
- (h) Inductance and capacitance.
- (i) Effects of paraffin wax.
- (j) Sensitisers.

August-2005

[KN 971]

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Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

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) What are High frequency currents? Discuss briefly about their properties and their physiological and therapeutic effects.

(2) What is ultra sound therapy? Explain in detail, the production, properties, types and techniques of application of ultra sound. Add a note on their effects on tissues.

II. Short questions : (10)

- (a) Laws governing radiation
- (b) Cable method of SWD application
- (c) PUVA therapy
- (d) Effects of MWD on tissues
- (e) Indications and contraindications of Paraffin wax
- (f) Methods of ice application
- (g) Precautions during LASER therapy
- (h) Dangers in IRR therapy
- (i) Filters
- (j) General body bath.

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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) Explain how the magnetron works. Discuss in detail the physiological and therapeutic effects of Microwave Diathermy. (5 + 10)

(2) Discuss in detail the principles, methods and physiological effects of cryotherapy.

- (a) Indications and contra indications of LASER.
- (b) Psoriasis and its treatment.
- (c) Coupling media.
- (d) Therapeutic effects of paraffin wax.
- (e) Pulsed short wave Diathermy.
- (f) Physiological effects of Infra-Red therapy.
- (g) Electromagnetic spectrum.
- (h) Photo sensitization.
- (i) Oscillator circuit.
- (j) Heat Transmission.

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(HIGH FREQUENCY)

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 :

(1) Define oscillation. What is capacitance and inductance? Give an example of an oscillating system. How does transfer of energy between two circuits take place? Define nodes and antinodes with examples. (20)

(2) Discuss in detail the production and the physiological effects of ultraviolet rays. (15)

(3) Discuss in detail the indications, contraindications, physiological and therapeutic effects, of short wave Diathermy. Add a note on Dangers of short wave Diathermy. (10 + 5)

II. Short Questions : (6 × 5 = 30)

(a) Properties of Magnetic field

(b) Indications and contraindications of ultrasonic therapy

(c) Moist heat and its uses

(d) Safety measures in handling electrical equipments

(e) Phonophoresis

(f) Treatment of indolent ulcer.

[KQ 971]

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**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Fifth Semester

(New Modified Regulations)

Paper II — ELECTROTHERAPY — II

(HIGH FREQUENCY)

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 :

(1) Define heat and explain about superficial and deep heating in detail. (20)

(2) Explain the principles and production of High frequency currents. Write down the dangers and precaution of High frequency currents. (15)

(3) Define Laser and briefly outline its therapeutic indication, contraindications, efficacy and precautions of it. (15)

II. Write Short notes : (6 × 5 = 30)

(a) Spacing and its significance.

(b) Law's governing radiation.

(c) Methods of cryotherapy.

(d) Transformer.

(e) Production of microwave diathermy.

(f) Electric arc.

[KR 971]

Sub. Code : 5352

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Fifth Semester

(Modified/New Modified Regulations)

Paper II — ELECTROTHERAPY — II

(HIGH FREQUENCY)

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
 forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay Questions :

1. Define Wax Bath, physical characteristics of Wax, physiological and techniques of application of paraffin wax. (15)

2. Discuss in detail about pulsed short wave, physiological, dangers and Dosage. (15)

II. Short Questions : (10 × 5 = 50)

- (a) Contrast baths and its method of application.
- (b) Management of spasticity.
- (c) Properties of high frequency current.
- (d) Electrotherapeutic management for Tennis Elbow.
- (e) Transformer and choke coil.
- (f) Treatment for psoriasis.
- (g) Test dose.
- (h) Luminous and non-luminous sources.
- (i) Therapeutic uses of Laser.
- (j) Fuse and grid.

FEBRUARY 2008

[KS 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

**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 :

**1. Define LASER. Explain the production,
therapeutic indications, contraindications and
precautions for the same. (15)**

**2. Explain the production and effects of Ultrasound.
(15)**

II. Short notes : (10 × 5 = 50)

- 1. Advantages and disadvantages of Wax therapy.**
- 2. Therapeutic effects of Cryotherapy.**
- 3. Test Dose.**
- 4. Dangers and Contraindications of IRR.**
- 5. Fuse.**
- 6. Cross-fire treatment.**
- 7. Physiological effects of heat.**
- 8. Dangers of Shortwave Diathermy.**
- 9. Electromagnetic Induction.**
- 10. Pressure sore.**

AUGUST 2008

[KT 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. Essay : (2 × 15 = 30)

1. Explain

- (a) Physical principles**
- (b) Physiological Effect**
- (c) Techniques of applications of Cryotherapy**

AUGUST 2008

2. Write in detail about physiological and therapeutic effects of heat production of S.W.D.

II. Short notes : (10 × 5 = 50)

1. Coupling Media
2. Dangers of Infra-red rays.
3. Electro magnetic spectrum
4. Absorbtion of Ultra sound.
5. Uses and advantages of paraffin wax.
6. Principles of laser.
7. Treatment of shock.
8. Test dose in UVR.
9. Excitatory cold.
10. Non-Luminous generators.

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

1. Pezio electric effect.
2. Pain.
3. Penetration.

4. Moist heat

5. Wave length.

6. Capacitance.

7. Frequency of Micro-Wave diathermy.

8. Half valve distance.

9. Puva.

10. Name out and physiological effect of UVR.
