

FEBRUARY 2008

[KS 1527]

Sub. Code : 1527

B.N.Y.S DEGREE EXAMINATION.

(New Regulations)

Fourth Year

Paper V — PHYSIOTHERAPY

Q.P. Code : 821527

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.

I. Long Essay :

(2 × 15 = 30)

1. Explain in detail about the therapeutic application, production, physiological effects, contraindication and indication of ultra sound therapy.

2. Explain mechanical principles involved in exercise therapy. Describe neuro muscular co-ordination.

II. Short notes :

(10 × 5 = 50)

1. Frenkel's exercise

2. Interferential therapy

3. What are the therapeutic application and effects of infra red radiation?

4. Relaxation.

5. Management of paralysis and muscle weakness by physiotherapy

6. Explain the physiological effects and contra indication of short wave diathermy.

7. Active movements

8. Walking aids

9. Wax therapy

10. Suspension therapy.

August 2008

[KT 1527]

Sub. Code : 1527

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

Fourth Year

Paper V — PHYSIOTHERAPY

Q.P. Code : 821527

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

1. Explain in detail about the technique of treatment, Dangers, precautions, physiological and therapeutic effects and uses and contra indication of short wave diathermy.

2. (a) Write the essay on muscular weakness and paralysis and prevention of muscle wasting and physiotherapy management.

(b) Explain the treatment to increase muscular strength and function.

August 2008

II. Short notes : (10 × 5 = 50)

1. Physiotherapy management of poliomyelitis.
2. IFT.
3. Principles of muscle strengthening and reeducation.
4. Management by physiotherapy for general debility patient.
5. Various types of crutch gait.
6. Techniques applied for Neuro muscular facilitation.
7. Explain the technique of mobilising shoulder and knee joint.
8. Limitation of range of joint movement.
9. Physiological effects of dangers of microwave diathermy.
10. Management of cerebral palsy spinabifida.

III. Short answer questions : (10 × 2 = 20)

1. Strength duration curve,
2. Factors responsible for poor posture.

3. Physiological effects of wax therapy.

4. Various pathological gaits.

5. Management of spinal deformity.

6. PUVA.

7. Faradic current.

8. Dangers of ultra violet irradiation.

9. Technique of application micro wave diathermy.

10. Prevention of restriction of joint range of movement.

FEBRUARY - 2009

[KU 1527]

Sub. Code : 1527

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

Fourth Year

Paper V — PHYSIOTHERAPY

Q.P. Code : 821527

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

**1. How will you reeducate the bedridden patient?
Discuss with examples of rehabilitation of that patient.**

**2. (a) Explain in detail about the production,
physiological and therapeutic effects. Technique of
application, Indication and contra indication for Infra
red radiation therapy.**

(b) Electro surgery.

II. Short notes : (10 × 5 = 50)

1. Physiotherapy management of sprain.

2. Micro wave diathermy.

3. Presentation of a good posture.
4. How will you manage Myasthenia gravis by physiotherapy?
5. Physiological-physical and chemical effects of electric current.
6. The value and disadvantages of group exercise.
7. Physiotherapy management for frozen shoulder.
8. Principles of co-ordinated movements.
9. Limb-girdle muscular dystrophy-Management.
10. Technique of mobilisation of stiff joint.

III. Short answers : (10 × 2 = 20)

1. Gutter crutches.
2. Exercise for writer's cramp.
3. Physiological effects of wax therapy.
4. Faradism.
5. Range of muscle work.
6. Principles of suspension.
7. Iontophoresis.

8. Electrotherapy management of Bell's palsy.
 9. Free exercise for knee joint.
 10. Dangers of ultra sound therapy.
-

August - 2009

[KV 1527]

Sub. Code : 1527

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

Fourth Year

Paper V — PHYSIOTHERAPY

Q.P. Code : 821527

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

1. Explain in detail about the classification of movement and write the techniques applied for hemiplegia by Exercise therapy.

2. Explain in detail about the therapeutic application, production, physiological effects, contra indication, indication, Dangers and precaution of ultra violet radiation.

II. Short notes : (10 × 5 = 50)

1. Management of Rheumatoid arthritis by physiotherapy.

2. Factors responsible for neuro muscular mechanism.

August - 2009

3. Explain the technique of mobilising shoulder and Knee Joint.
4. Joule's Law.
5. Principles of muscle strengthening and reeducation.
6. Management by physiotherapy for general debility patient.
7. Explain in detail about the various types of crutch gait.
8. Interrupted Galvanic current.
9. Management of cervical spondylosis by physiotherapy.
10. Write management, position of the patient, dosage and duration for plantar fascitis.

III. Short Answers : (10 × 2 = 20)

1. Effects and uses of Resisted exercise.
2. Physiological effects of wax therapy.
3. Factors for poor development of good pasture.

4. Maxwell's cork screw rule.
 5. Define Pendulum.
 6. Dangers of IR. radiation.
 7. PUVA.
 8. Types of suspension therapy.
 9. Management of Acne vulgaris.
 10. Methods of treatment of IFT.
-

February 2010

[KW 1527]

Sub. Code: 1527

B.N.Y.S DEGREE EXAMINATION.

(New Regulations)

Fourth Year

Paper V – PHYSIOTHERAPY

Q.P. Code : 821527

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Essays:

(2 x 15 = 30)

1. Explain the construction and working of short wave diathermy.
2. What is gait? Explain the pathological gait.

II. Short Notes:

(10 x 5 = 50)

1. Charging and discharging of capacitor.
2. Effects and uses of suspension therapy.
3. Piezo electric effect.
4. Function of transformer.
5. factors responsible for good posture.
6. Physiological effects of wax therapy.
7. Ohm's Law and Coloumb Law.
8. Frenkel's exercise.
9. Force.
10. Causes of muscle weakness.

III. Short Answers:

(10 x 2 = 20)

1. Dosage for "IFT".
 2. Define power.
 3. Wavelength and frequency of microwave diathermy.
 4. Classification of passive movements.
 5. Melting point of wax.
 6. Define relaxation.
 7. How to assess muscle power?
 8. What is meant by line of gravity?
 9. Define intensity of current.
 10. Fundamentals of starting position.
-

August 2010

[KX 1527]

Sub. Code: 1527

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

Fourth Year

Paper V – PHYSIOTHERAPY

Q.P. Code : 821527

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Essay Questions:

(2 x 15 = 30)

1. Define Lever. Explain the orders of lever with examples.
2. Explain Electromagnetic induction and production of electromagnetic force.

II. Short Notes:

(10 x 5 = 50)

1. Technique of co-ordination exercise.
2. Triode value.
3. Physiology of heat and cold.
4. Equilibrium.
5. Principles of muscle strengthening.
6. Indication and contraindication of “IFT”.
7. Involuntary movements.
8. Pulsed ‘SWD’.
9. Joules Law.
10. Prevention of joint stiffness.

III. Short Answers:

(10 x 2 = 20)

1. PUVA.
 2. Define gravity.
 3. Planes.
 4. Define pain.
 5. Measurement of elbow crutch.
 6. Semiconductors.
 7. Valve.
 8. Dangers of UV radiation.
 9. Positioning of IRR lamp.
 10. Physiology of cold application.
-

February 2011

[KY 1527]

Sub. Code : 1527

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

Fourth Year

Paper V — PHYSIOTHERAPY

Q. P. Code : 821527

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Essay : (2 × 15 = 30)

1. Analysis of normal gait with muscle work and what are the various pathological gaits?
2. Explain in detail about the principles, physiological and therapeutic effects, dangers, precautions, contra indication of ultra sound therapy.

II. Short notes : (10 × 5 = 50)

1. Write some methods of testing in exercise therapy.
2. Interrupted galvanic currents.
3. Progressive resistance exercise.
4. Basic principles of interferential therapy.
5. How will you re-educate the hemiplegic patient?
6. Draw and illustrate the motor points of face and back.
7. Limitation and prevention of joint stiffness.
8. Physiological and therapeutic effects of uv rays.
9. Management of adhesive capsulitis.
10. Technique of application and effects of wax therapy.

III. Short answers :

(10 × 2 = 20)

1. Rheostat.
 2. Pathological tension in muscles.
 3. Neuroprascia.
 4. Examples of free exercise for lumbar joints.
 5. Iontophoresis.
 6. Stretch reflex.
 7. Maxwel's cork - screw rule.
 8. Sticks.
 9. Electro therapy for cervical spondylosis.
 10. Electric lines of force.
-

August 2011

[KZ 1527]

Sub. Code : 1527

B.N.Y.S. DEGREE EXAMINATION.

Fourth Year

Paper V — PHYSIOTHERAPY

Q. P. Code : 821527

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

1. (a) Physiotherapy management to increase muscular strength.
(b) Effects of infra red rays.
(c) Methods of production of ultrasound therapy.
2. Explain in detail about production, physiological effects and indication of ultrasound therapy.

II. Short notes : (10 × 5 = 50)

1. Principles of co-ordinated movements
2. Microwave diathermy.
3. Frenkel's exercise.
4. Paralysis - Physiotherapy management.
5. Transformer.
6. Explain the technique of mobilising elbow and knee joints.
7. Bells palsy - Electrotherapy management.
8. Free exercise for shoulder.
9. Pathological Gaits.
10. Frozen shoulder - physiotherapy and electro management.

III. Short answers : (10 × 2 = 20)

1. Elbow crutches.
 2. Faradism.
 3. Iontophoresis.
 4. Types of walking aids.
 5. Effects of wax therapy
 6. Dangers of SWD.
 7. Principles of suspension.
 8. Active movements - classify.
 9. PUVA.
 10. SD curve.
-

February 2012

[LA 1527]

Sub. Code: 1527

B.N.Y.S. DEGREE EXAMINATION.

Fourth Year

Paper V – PHYSIOTHERAPY

Q.P. Code: 821527

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on: (2x15=30)

1. Explain Walking Aids
2. Explain the physiological and Therapeutic effects, precautions, contraindication of Microwave Diathermy.

II. Write notes on: (10x5=50)

1. Wax therapy's physiological and therapeutic effects and uses
2. Lower-Motor-neuron
3. Explain short wave diathermy
4. Classification of joint movements
5. Explain suspension therapy
6. Galvanic Current
7. Biophysics of heat
8. Passive movements
9. Explain lying and its effects uses
10. Types of muscle work

III.Short Answers (10x2=20)

1. Joule's Law
2. Faradic Current
3. Gait
4. Posture
5. Electrotherapy
6. Fatigue Test
7. Neurotomy
8. Paralysis
9. Hooke's Law
10. Gravity

[LB 1527]

Sub. Code: 1527

FOURTH B.N.Y.S. DEGREE EXAM – AUGUST 2012

Paper – V PHYSIOTHERAPY

Q.P. Code: 821527

Time: 180 Minutes

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

**Pages Time Marks
(Max.)(Max.)(Max.)**

- | | | | |
|---|----|----|----|
| 1. Principles, method of application and therapeutic effects of short wave diathermy. | 16 | 25 | 15 |
| 2. Methods of testing the patient's condition in physiotherapy. | 16 | 25 | 15 |

II. Short notes on:

- | | | | |
|--|---|---|---|
| 1. Properties of ultrasound waves. | 3 | 8 | 5 |
| 2. Application and therapeutic effects of infrared radiation. | 3 | 8 | 5 |
| 3. Mention the types and mechanism of posture. | 3 | 8 | 5 |
| 4. Benjamin Franklin's contribution on evolution of Electro therapy. | 3 | 8 | 5 |
| 5. Principles of re-education in Neuromuscular co-ordination. | 3 | 8 | 5 |
| 6. Power. | 3 | 8 | 5 |
| 7. Ohms law and Coulomb's law. | 3 | 8 | 5 |
| 8. EMF. | 3 | 8 | 5 |
| 9. Principles of Relaxed Passive movement. | 3 | 8 | 5 |
| 10. Draw a diagram of motor points of hands and legs. | 3 | 8 | 5 |

III. Short Answers on:

- | | | | |
|--|---|---|---|
| 1. Grades used in manual muscle testing. | 1 | 5 | 2 |
| 2. Dangers of UV radiation. | 1 | 5 | 2 |
| 3. Ice cube massage. | 1 | 5 | 2 |
| 4. Melting point of wax. | 1 | 5 | 2 |
| 5. Dosage for IFT. | 1 | 5 | 2 |
| 6. Gait. | 1 | 5 | 2 |
| 7. Define – force. | 1 | 5 | 2 |
| 8. Types of Muscle work. | 1 | 5 | 2 |
| 9. Define poor posture. | 1 | 5 | 2 |
| 10. Gutter crutches. | 1 | 5 | 2 |

FOURTH B.N.Y.S. DEGREE EXAM - FEBRUARY 2013

PAPER V - PHYSIOTHERAPY

Q.P. CODE: 821527

Time: Three Hours

Maximum Marks: 100

ANSWER ALL QUESTIONS

I. ESSAY QUESTIONS:

2 X 15= 30

1. Define starting position. Explain its types in detail.
2. Explain in detail about application, production, physiological effects, indication and Contra- indication of ultrasound therapy.

II. SHORT NOTES:

10 X 5= 50

1. Write about Frenkle's and Mckenze's exercise
2. What is Transformer? Explain its types.
3. Physiotherapy management for Spastic Hemiplegia
4. Explain the technique of mobilizing shoulder and hip joint
5. Draw a diagram of motor points of hand and leg
6. Write the principles of giving relaxed passive movement
7. Write the application and therapeutic effects of Ultraviolet radiation
8. What is capacitor? Explain its types
9. Write the techniques of application of paraffin wax bath therapy
10. Write the Indications of short wave diathermy

III. SHORT ANSWERS

10 X 2= 20

1. Define Coulomb's law
2. Define Ohm's law
3. Define Lenz law
4. What is Rheostat?
5. What is Goniometry?
6. Write briefly about Luigi Galvani
7. Define Iontophoresis
8. Define velocity
9. What are the types of diathermy?
10. Write the effects of wax therapy.

FOURTH B.N.Y.S. DEGREE EXAM - AUGUST 2013

PAPER V - PHYSIOTHERAPY

Q.P. CODE: 821527

Time: Three Hours

Maximum Marks: 100

ANSWER ALL QUESTIONS

I. ESSAY QUESTIONS:

2 X 15= 30

1. Write in detail about various assessments in exercise therapy
2. Write on principles, methods of applications and methods of treatment of interferential therapy

II. SHORT NOTES:

10 X 5= 50

1. What are the Principles of re-education in neuromuscular co-ordination?
2. Benjamin Franklin's contribution on evolution of electrotherapy.
3. Explain the technique of mobilizing elbow and knee joint.
4. Write the General uses of ultrasound.
5. Write about Radial nerve stimulation.
6. Explain about the Production of infrared radiation
7. Write the Dangers of short wave diathermy
8. Explain Physiotherapy management for Lumbar spondylosis
9. Write about the Free exercise of elbow
10. Write about microwave diathermy and its uses

III. SHORT ANSWERS

10 X 2= 20

1. What is endurance test?
2. Write the Aims of exercise therapy
3. Make a note on Group action of muscles
4. What is Faradic current?
5. What is Contrast method of relaxation?
6. What is Involuntary reflex movement?
7. Explain the condition - Neuropraxia
8. What are the Types of electricity?
9. Define SD Curve
10. Define Force

FOURTH YEAR B.N.Y.S. DEGREE EXAM

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three hours

Maximum : 100 Marks

Answer All questions

I. Essays Questions:

2 x 15 = 30

1. Write in detail about various assessments in exercise therapy.
2. Write the Principles, method of application and therapeutic effects of short wave diathermy

II. Short Notes:

10 x 5 = 50

1. Write about Radial nerve stimulation
2. Write about microwave diathermy and its uses
3. Explain physiotherapy management for Lumbar spondylosis
4. Explain about the Production of infra red radiation
5. Define Posture. Good posture and its development
6. Explain the technique of mobilizing shoulders and elbow joints
7. Write the general uses of ultrasound
8. Write the techniques of applications of paraffin wax bath
9. Define starting position. Explain its type
10. Tests for Neuromuscular efficiency

III. Short Answers:

10 x 2 = 20

1. Rheostat
2. Define power
3. Make a note on Group action of muscles
4. What is Faradic current?
5. What is Contrast method of relaxation?
6. What are the dosages of giving IFT?
7. Neuropexia
8. What is Frame?
9. What is Suspension therapy?
10. Define Coulombs law

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essays Questions:

(2 x 15 = 30)

1. Write on:
 - a) Effects of infrared rays.
 - b) Physiotherapy management to increase muscular strength.
 - c) Methods of production of ultraviolet rays.
2. Write on principles, methods of applications and methods of treatment of Interferential therapy.

II. Write Notes on:

(10 x 5 = 50)

1. Walking aids and its types.
2. Physiotherapy management for Frozen shoulder.
3. Write about Frenkle's exercise and its importance.
4. Write about Relaxation.
5. What is capacitor and explain its types?
6. Write the therapeutic effects of Ultraviolet radiation.
7. Write the techniques of application of paraffin wax bath therapy.
8. Write the principles of giving relaxed passive movement.
9. Write the Indications of short wave diathermy.
10. Draw a diagram of motor points of hand and leg.

III. Short Answers on:

(10 x 2 = 20)

1. Define Ohm's law.
2. Types of electricity.
3. Wavelength and frequencies of Short wave diathermy.
4. What is Goniometry?
5. What is Suspension therapy?
6. Classify Active movement.
7. Define Iontophoresis.
8. Define Coulomb's law.
9. What are the types of diathermy?
10. Write the effects of wax therapy.

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Essay Questions:

(2 x 15 = 30)

1. Explain in detail about the post-operative physiotherapy management after total knee replacement surgery.
2. Describe the role of physiotherapy in cardio-respiratory conditions and Explain the various types of breathing exercises.

II. Write notes on:

(10 x 5 = 50)

1. Transformers.
2. Micro wave diathermy.
3. Effects of Radiation therapy.
4. Contra - indications for Cryotherapy.
5. Static Electricity.
6. Adhesive capsulitis.
7. Principles of PNF.
8. Pathological Gait.
9. Axis, Planes and Levers.
10. Strengthening of Paralyzed Muscle.

III. Short answers on:

(10 x 2 = 20)

1. Maxwell's cork-screw rule.
2. Magnetic energy.
3. Joule's law.
4. Piezo-Electric effect.
5. Beat Frequency.
6. Concave – Convex rule.
7. Rebound phenomena.
8. Gait Cycle.
9. Stretch reflex.
10. Isokinetic exercises.

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Define free exercises; write its classification, techniques, advantages, disadvantages, effects and uses.
2. Discuss the production of Infra Red Radiation. Describe the therapeutic effects and dangers of Infra Red Radiation.

II. Write Notes on:

(10 x 5 = 50)

1. Write the Principles of muscle strengthening.
2. Write the techniques of Relaxation.
3. Explain about the types of gaits.
4. Physiotherapy management for muscular dystrophy.
5. Write the various tests for muscle contraction.
6. Define Speed? And its role in passive movements?
7. Electrotherapy management for Periarthritic shoulder.
8. Write the therapeutical uses of Microwave diathermy.
9. Write the production of therapeutic Ultrasound.
10. What are the factors that responsible for good posture?

III. Short Answers on:

(10 x 2 = 20)

1. What is Galvanic Current?
2. What is Suspension therapy?
3. Classify Active movement.
4. Define power.
5. Types of crutches.
6. What is the Melting point of wax?
7. What are the dosages of giving IFT?
8. Electric lines of force.
9. Indications of giving ultraviolet radiation.
10. Neurotmesis.

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Define incoordination. Write the causes and physiotherapy management of an incoordination patient.
2. Explain in detail about application, production, physiological effects, indication and Contra- indication of ultrasound therapy

II. Write Notes on:

(10 x 5 = 50)

1. Write the physiological effects of IFT.
2. What is a Transformer and explain its types?
3. Physiotherapy management of Bell's palsy.
4. Explain the technique of mobilizing shoulder and hip joint.
5. Draw a diagram of motor points of hand and leg.
6. Explain various types of crutch walking.
7. Write the application and therapeutic effects of Ultraviolet radiation.
8. Explain the various types of levers with examples in the human body.
9. Write the techniques of application of paraffin wax bath therapy
10. Write the Indications of short wave diathermy.

III. Short Answers on:

(10 x 2 = 20)

1. Define Coulomb's law.
2. Define Ohm's law.
3. Define Lenz law.
4. What is Rheostat?
5. What is Goniometry?
6. Hints about Luigi Galvani.
7. Define Iontophoresis.
8. Define velocity.
9. What are the types of diathermy?
10. Write the effects of wax therapy.

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions: (2 x 15 = 30)

1. Explain in detail about the physiotherapy assessment and management for Middle Cerebral Artery Stroke.
2. Describe the role of physiotherapy in cardio-respiratory conditions and explain the various types of breathing exercises.

II. Write Notes on: (10 x 5 = 50)

1. Iontophoresis.
2. Microwave diathermy.
3. Effects of Radiation therapy.
4. Contraindications for Cryotherapy.
5. Static Electricity.
6. Signs of Incoordination.
7. Pre-Ambulatory Mat Exercises.
8. Write a note on various Pathological Gaits.
9. Frenkel's Exercise.
10. Principles of Joint Mobilisation.

III. Short Answers on: (10 x 2 = 20)

1. Dysdiadochokinesia.
2. Dangers of infrared rays.
3. Rheostat.
4. Piezoelectric sensor.
5. Properties of magnet.
6. Concave – Convex rule.
7. Rebound phenomena.
8. Gait Cycle.
9. Stretch reflex.
10. Joule's Law.

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions: (2 x 15 = 30)

1. Explain in detail about the physiotherapy assessment and management for Peri - arthritis Shoulder.
2. Proprioceptive Neuromuscular Facilitation.

II. Write Notes on: (10 x 5 = 50)

1. Pain Gate Theory.
2. Transcutaneous Electrical Nerve Stimulation.
3. Therapeutic effects of Ultra Sound.
4. Draw and Label the Motor points of the face.
5. Bell's Palsy - Physiotherapy Management.
6. Starting Positions.
7. Fracture healing.
8. Method of application of wax bath.
9. Range of Muscle work.
10. Breathing Exercises for cardiopulmonary.

III. Short Answers on: (10 x 2 = 20)

1. Beat Frequency.
2. Electro-Motive Force.
3. Cavitation.
4. Arthrokinematics.
5. Define Posture.
6. Hooke's Law.
7. Equilibrium.
8. Isometric contraction.
9. Neuropraxia.
10. Define Voltmeter.

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions: (2 x 15 = 30)

1. Explain in detail about production, application, physiological effects, indications and contra – indications of ultraviolet radiation therapy.
2. Explain in detail about the physiotherapy management of Peripheral Nerve injuries.

II. Write Notes on: (10 x 5 = 50)

1. Classification of movements.
2. Interferential therapy.
3. Write a note on walking Aids.
4. Dangers of short wave diathermy.
5. Physiological Effects of low Frequency currents.
6. Progressive Resisted Exercise.
7. Write a note on posture.
8. Ankylosing spondylitis physiotherapy management.
9. Tests for Incoordination.
10. Types of muscle function.

III. Short Answers on: (10 x 2 = 20)

1. Romberg's test.
2. Eddy current.
3. Surged Faradism.
4. Rectifier.
5. Muscle power Grading.
6. Isokinetic exercises.
7. Deep tendon reflexes.
8. Ohm's law.
9. Sensory Ataxia.
10. Suspension therapy.

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions: (2 x 15 = 30)

1. Define Joint. Explain in detail about Structural Features, Classification, Limitation, Prevention of Joint Mobility.
2. Explain in detail about Principle, Methods of application and Methods of treatment of Interferential Therapy.

II. Write Notes on: (10 x 5 = 50)

1. Write about the free exercise of elbow.
2. Write about Radial Nerve Stimulation.
3. Explain the principles of giving relaxed passive movement.
4. Ultraviolet Radiation.
5. Physiotherapy Management of Hemiplegia.
6. Write about Frenkle's and McKenzie's Exercise.
7. Principles and Management of Exercise therapy.
8. Principles of Relaxed Passive Movement.
9. Ultrasound Therapy.
10. Limitation and Prevention of Joint stiffness.

III. Short Answers on: (10 x 2 = 20)

1. Aims of Exercise Therapy.
2. Galvanic Current.
3. Involuntary Reflex Movement.
4. Physiological effects of Infrared rays.
5. Define Elasticity.
6. Neuropraxia.
7. Types of walking aids.
8. Define Velocity.
9. Dangers of SWD.
10. Maxwell's Cork-Screw rule.

[LM 1527]

FEBRUARY 2018

Sub. Code: 1527

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions: (2 x 15 = 30)

1. Explain in detail about Neuro-Muscular Facilitation Technique and add a note on Proprioceptive Neuromuscular Facilitation.
2. Define Starting Position and add a note on Fundamental Starting and Derived Positions.

II. Write Notes on: (10 x 5 = 50)

1. Physiological effects of Physiotherapy and Electrotherapy.
2. Write the Principles of TENS.
3. What is Capacitor and Explain its types?
4. Explain about Relaxation.
5. Define passive movement and its classification.
6. Explain about Functional Re-education.
7. Write about Classification of Joint Mobility.
8. Write a note on physiotherapy Management of Frozen Shoulder.
9. Explain about Ranges of Muscle Work.
10. Explain about Prevention of Muscle Wasting.

III. Short Answers on: (10 x 2 = 20)

1. Define Centre of Gravity.
2. Define SD-Curve.
3. Structure of an atom.
4. Define Power.
5. Equilibrium.
6. Hooke's Law.
7. Management of OA.
8. Define Rheostat.
9. Types of Electricity.
10. Define Joule's Law.

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions: (2 x 15 = 30)

1. Define Gait and Gait cycle. Add a note on normal gait with muscle work and types of Pathological Gaits.
2. Explain in detail about Faradic and Galvanic currents. Add a note on Physiological effects of Faradic Currents.

II. Write Notes on: (10 x 5 = 50)

1. Faradic Footbath.
2. Physiotherapy Management of Lumbar Spondylosis.
3. Define Posture. Good Posture and its development.
4. Walking aids and its types.
5. Tests for Incoordination.
6. Write about the Free Exercise of elbow.
7. Write the Principles of TENS.
8. Write about Microwave Diathermy and its uses.
9. Write about Frenkle's Exercise and its importance.
10. Write the general uses of Ultrasound.

III. Short Answers on: (10 x 2 = 20)

1. Define Coulomb's Law.
2. Ohm's Law.
3. Crutch Gait.
4. Define Goniometry.
5. Define SD-Curve.
6. Define Centre of Gravity.
7. Types of electricity.
8. Melting Point of Wax.
9. Define Tension.
10. Dangers of UV radiation.

[LN 1527]

AUGUST 2018

Sub. Code: 1527

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Define Posture. Elaborate the various factors influencing the maintenance of Good Posture.
2. Define Transcutaneous Electrical Nerve Stimulation. Method of working, electrode placements, Indications and contraindications.

II. Write Notes on:

(10 x 5 = 50)

1. Write the physiological effects of Ultrasound therapy.
2. Explain – Contrast bath.
3. Types of muscle contraction.
4. Explain Hanging in starting position.
5. Electrotherapy management for Radial Nerve Palsy.
6. Explain various types of walking aids.
7. Electrode Placement of Interferential therapy.
8. Describe the Electrotherapy modalities used for strengthening muscles.
9. Bell's Palsy – Electrotherapy management.
10. Write the Indications of short wave diathermy.

III. Short Answers on:

(10 x 2 = 20)

1. Center of Gravity.
2. Frontal plane.
3. 3rd order lever.
4. Checking of electrical muscle stimulators.
5. Capacitance.
6. Rheostat.
7. Galvanic current.
8. Define Velocity.
9. Ohm's Law.
10. Write the effects of wax therapy.

[LN 1527]

OCTOBER 2018

Sub. Code: 1527

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Define passive movement, explain in detail about its classification, principles, indications and contraindications, effects and uses.
2. What is gait? Explain the Pathological gaits.

II. Write Notes on:

(10 x 5 = 50)

1. Charging and discharging of a Capacitor.
2. Effects of Interferential therapy.
3. Principles of Proprioceptive neuromuscular facilitation.
4. Interrupted galvanic currents.
5. Explain various types of crutch walking.
6. Write the principles of TENS.
7. Physiotherapy Management for Lumbar Spondylosis.
8. Free exercise for shoulder.
9. Tests for Neuromuscular efficiency.
10. Define starting position and explain its type.

III. Short Answers on:

(10 x 2 = 20)

1. Melting point of wax.
2. Define intensity of the current.
3. What is meant by line of Gravity?
4. Define relaxation.
5. What is suspension therapy?
6. Neuroprexia.
7. What is frame?
8. Active Movements-classify.
9. What are involuntary reflex movements?
10. What are the types of diathermy?

[LO 1527]

MAY 2019

Sub. Code: 1527

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Explain the construction, therapeutic effects and contraindication of short wave Diathermy.
2. Define incoordination. Write the causes and Physiotherapy Management of an incoordination Patient.

II. Write Notes on:

(10 x 5 = 50)

1. Transformers.
2. Piezoelectric effect.
3. Technique of application and effects of wax therapy.
4. Management for frozen shoulder.
5. Passive Manual Mobilisation techniques.
6. Effects and uses of Fundamental positions.
7. Write about the axes and planes of human body in anatomical position with examples.
8. Basic Principles of Interferential therapy.
9. Write in detail about involuntary movements.
10. Explain the testing Methods used in Exercise therapy.

III. Short Answers on:

(10 x 2 = 20)

1. Equilibrium.
2. Define Power.
3. Levers of the body.
4. Gait cycle.
5. Crutches and its types.
6. Define Motor Unit.
7. Types of pain in terms of its origin.
8. Rheostat.
9. Dangers of UV radiation.
10. Effects of wax therapy.

[LP 1527]

OCTOBER 2019

Sub. Code: 1527

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Explain in detail about the exercise and electro therapy management for soft tissue injury.
2. Write in detail about principles and methods of applications in Interferential therapy.

II. Write Notes on:

(10 x 5 = 50)

1. Principles of Co-ordinated movements.
2. Pathological Gaits.
3. Function of transformer.
4. Physiological effects of wax therapy.
5. Physiological and therapeutic effects of UV rays.
6. Write the Indications of short wave diathermy.
7. Effects and uses of Suspension therapy.
8. Write about predisposing factors for poor posture.
9. Physiotherapy management of Bells palsy.
10. Walking aids and its types.

III. Short Answers on:

(10 x 2 = 20)

1. Maxwell's cork-screw rule.
2. Stretch reflex.
3. Beat frequency.
4. How to assess muscle power?
5. Fundamentals of starting position.
6. Write about Approximation.
7. Difference between Dynamic stretch and Ballistic stretch.
8. Joule's law.
9. What is Goniometry?
10. Define Iontophoresis.

[LQ 1527]

FEBRUARY 2020

Sub. Code: 1527

FOURTH B.N.Y.S. DEGREE EXAMINATION

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Define active movement. Explain in detail about its classification, principles, indications and contra indications.
2. Define Faradic current. Describe the physiological and therapeutic effects of faradic current.

II. Write Notes on:

(10 x 5 = 50)

1. Principles of Relaxed Passive Movements.
2. Describe the muscle work and uses of Standing.
3. Explain the derived positions of sitting.
4. Explain the techniques of Relaxation.
5. Exercise therapy to increase neuromuscular efficiency.
6. Faradic foot bath.
7. Methods of application of Ultrasound therapy.
8. Precautions of giving Electrical Muscle Stimulation.
9. Motor points stimulation of deltoid inhibition.
10. Ultra violet radiation therapy.

III. Short Answers on:

(10 x 2 = 20)

1. What is Impedance?
2. What are the non-weight bearing exercises?
3. Indications of IFT.
4. What is Pelvic tilt?
5. What is Contrast method of relaxation?
6. Types of electrodes.
7. Electro therapy for sprain.
8. Contra indications for Active exercises.
9. Neurotemesis.
10. Waddling Gait.

[LQ 1527]

DECEMBER 2020
(MAY & AUGUST 2020 SESSION)
FOURTH B.N.Y.S. DEGREE EXAMINATION

Sub. Code: 1527

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Discuss briefly about various phases of Gait cycle. Add a note on pathological gaits.
2. Define Interrupted Direct Current (IDC). Describe the effects of IDC on Innervated and Denervated muscle.

II. Write Notes on:

(10 x 5 = 50)

1. Short-Wave Diathermy in detail.
2. Interferential therapy – benefits / Precautions.
3. Physiological effects of Interferential Current.
4. Pulleys and springs.
5. Exercise therapy to Increase Neuromuscular efficiency.
6. Faradic foot bath.
7. Methods of application of Ultrasound therapy.
8. Factors causing Poor Posture.
9. Various techniques of General and local relaxation.
10. Pain Pathway.

III. Short Answers on:

(10 x 2 = 20)

1. Pelvic floor Muscle exercises.
2. What is Impedance?
3. Indications of IFT.
4. What is Pelvic tilt?
5. What is Contrast method of relaxation?
6. Types of electrodes.
7. What is Rheobase?
8. Contraindications for Passive exercises.
9. Neurasthenia.
10. Hemiplegic Gait.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BNYS 0322]

**MARCH 2022
(FEBRUARY 2021 & MAY 2021 SESSIONS)**

Sub. Code: 1527

**B.N.Y.S. DEGREE EXAMINATION
FOURTH YEAR
(For the candidates admitted from the academic year 2011-12)
PAPER V – PHYSIOTHERAPY
Q.P. Code : 821527**

Time: Three Hours

Answer ALL questions

Maximum : 100 Marks

I. Essay Questions: (2 x 15 = 30)

1. Exercise therapy to increase muscular strength.
2. Explain in detail about the method of working electrode placements, indications and contraindications of short wave diathermy.

II. Write Notes on: (10 x 5 = 50)

1. What is Transformer? Explain its types.
2. Explain – Contrast bath.
3. Write the indications of Ultra sound.
4. Method and indication of IFT.
5. Electrotherapy management for Radial Nerve Palsy.
6. Explain various types of walking aids.
7. Write about Frenkle's and Mckenze's exercises.
8. Define starting position. Explain its type with examples.
9. Electrotherapy management for sciatica.
10. What are the factors that are responsible for good posture?

III. Short Answers on: (10 x 2 = 20)

1. Electrotherapy for writer's cramp.
2. TENS.
3. 3rd order lever.
4. Checking of electrical muscle stimulators.
5. Examples of Resisted exercise.
6. Neurotemesis.
7. Galvanic current.
8. Pulley.
9. Suspension therapy.
10. Write the effects of wax therapy.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BNYS 0522]

MAY 2022

Sub. Code: 1527

(AUGUST 2021 & OCTOBER 2021 SESSIONS)

B.N.Y.S. DEGREE EXAMINATION

FOURTH YEAR

(For the candidates admitted from the academic year 2011-12)

PAPER V – PHYSIOTHERAPY

Q.P. Code : 821527

Time: Three Hours

Answer ALL questions

Maximum : 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Methods of testing the patient's condition in physiotherapy.
2. Discuss about Infra Red Radiation. Describe the therapeutic effects and contraindications of Infra Red Radiation.

II. Write Notes on:

(10 x 5 = 50)

1. Write the Principles of muscle strengthening.
2. Write the techniques of Relaxation.
3. Explain about the types of gaits.
4. Types of Traction.
5. Write the various tests for muscle contraction.
6. Explain about Functional Re-education.
7. Electrotherapy management for denervated muscles.
8. Explain about Prevention of Muscle Wasting.
9. Write the production of therapeutic Ultrasound.
10. What are the factors that are responsible for good posture?

III. Short Answers on:

(10 x 2 = 20)

1. What is Suspension therapy?
2. Define power.
3. Coulomb's law.
4. Difference between A.C and D.C current.
5. Maxwell's cork-screw rule.
6. Uses of transformer.
7. What is chronaxie?
8. Strength duration curve.
9. Joule's law.
10. Surged current.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BNYS 1022]

**OCTOBER 2022
(FEBRUARY 2022 & MAY 2022 SESSIONS)**

Sub. Code: 1527

**B.N.Y.S. DEGREE EXAMINATION
FOURTH YEAR
(For the candidates admitted from the academic year 2011-12)
PAPER V – PHYSIOTHERAPY
Q.P. Code : 821527**

Time: Three Hours

Answer ALL questions

Maximum : 100 Marks

I. Essay Questions: (2 x 15 = 30)

1. Define free exercises. Write its classification, techniques, advantages, and disadvantages.
2. Discuss the production of Infra Red Radiation. Describe the therapeutic effects, dangers and contra indications of Infra Red Radiation.

II. Write Notes on: (10 x 5 = 50)

1. Write the principles of muscle strengthening.
2. Write the techniques of Relaxation.
3. Explain about the types of gaits.
4. Types of Traction.
5. Write the various tests for muscle contraction.
6. Pain Pathway.
7. Electrotherapy management for denervated muscles.
8. Physiotherapy for Hemiplegia.
9. Write the production of therapeutic Ultrasound.
10. What are the factors that are responsible for good posture?

III. Short Answers on: (10 x 2 = 20)

1. Difference between A.C and D.C current.
2. What is Suspension therapy?
3. Galvanic current.
4. Define power.
5. Coulombs law.
6. Uses of transformer.
7. What is chronaxie?
8. Strength duration curve.
9. Indications of giving ultraviolet radiation.
10. Surged current.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BNYS 0323]

MARCH 2023

Sub. Code: 1527

(AUGUST 2022 & OCTOBER 2022 EXAM SESSIONS)

B.N.Y.S. DEGREE EXAMINATION

FOURTH YEAR

(For the candidates admitted from the academic year 2011-12)

PAPER V – PHYSIOTHERAPY

Q.P. Code: 821527

Time: Three Hours

Answer ALL questions

Maximum : 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Explain in detail about Interferential therapy and its importance.
2. Define Joint movement and add a note on classification of joints movements, prevention and Techniques of Mobilization in stiff joints.

II. Write Notes on:

(10 x 5 = 50)

1. Gait and its various types of crutches.
2. Principles of exercises Therapy.
3. Radial Nerve stimulation.
4. Suspension Therapy.
5. Muscles of back and its motor points.
6. Faradic Foot bath.
7. Hydrocollateral packs.
8. Passive movements.
9. Oxford classification of Muscle grading.
10. Structure of atoms.

III. Short Answers on:

(10 x 2 = 20)

1. Define Magnetic Intensity.
2. Relaxation types.
3. Physio-exercise for Frozen shoulder.
4. Adhesive capsulitis and its management.
5. Gravity and Centre of gravity.
6. Stable Equilibrium.
7. Electromotive force.
8. Define Velocity.
9. What are high frequency currents?
10. Maxwell's cork screw rule.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BNYS 0823]

**AUGUST 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 1527

**B.N.Y.S. DEGREE EXAMINATION
FOURTH YEAR
(For the candidates admitted from the academic year 2011-12)
PAPER V – PHYSIOTHERAPY**

Q.P. Code: 821527

Time: Three Hours

Answer ALL questions

Maximum : 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Explain in detail about Faradic and Galvanic currents.
2. Explain detail about Active and passive movements.

II. Write Notes on:

(10 x 5 = 50)

1. Frenkel's Exercise.
2. Principles of Electrotherapy.
3. Limitation of Joint movements.
4. Define posture and add a note on good posture.
5. Infrared radiation and its importance.
6. Physiological effects of Interferential therapy.
7. Wax bath and its physiological effects.
8. Ultrasound therapy.
9. Relaxation and its principle, technique.
10. Transmission of heat in electricity.

III. Short Answers on:

(10 x 2 = 20)

1. Iontophoresis.
2. Magnetic Intensity.
3. Physio-exercises for Osteoarthritis.
4. Importance of Electrophysical applications.
5. Line of gravity.
6. Fixation and stabilization.
7. Second order levers.
8. Define Frequency.
9. Springs and pulleys.
10. Isometric Contraction.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BNYS 0824]

**AUGUST 2024
(MAY 2024 EXAM SESSION)**

Sub. Code: 1527

**B.N.Y.S. DEGREE EXAMINATION
FOURTH YEAR
(For the candidates admitted from the academic year 2011-12)
PAPER V – PHYSIOTHERAPY**

Q.P. Code: 821527

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Explain in detail about Techniques of mobilization in stiff joints and how to prevent it?
2. Explain about short wave diathermy, how it is produced, physiological and therapeutic effects, precautions, techniques of treatment and its contra indications in detail?

II. Write Notes on:

(10 x 5 = 50)

1. Write a short note on infra red radiation.
2. Write a short note on cryotherapy and its therapeutic uses.
3. Write a short note on relaxation and its types.
4. Write a short note on stimulation of the ulnar nerve.
5. Write a short note on suspension therapy.
6. What is functional re education of muscle?
7. Define in coordination and write exercises to treat it.
8. Define stretching and its types.
9. Write a short note on lever and its classification.
10. Treatment for peri arthritis of shoulder.

III. Short Answers on:

(10 x 2 = 20)

1. Define Surged current.
2. Difference between AC current and DC current.
3. Define Velocity.
4. Define Neurasthenia.
5. Electrotherapy for strain.
6. Indications of Interferential therapy.
7. Define Joules law.
8. Define crutches and its types.
9. What are the types of diathermy?
10. Define frontal plane.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BNYS 0125]

**JANUARY 2025
(OCTOBER 2024 EXAM SESSION)**

Sub. Code: 1527

**B.N.Y.S. DEGREE EXAMINATION
FOURTH YEAR
(For the candidates admitted from the academic year 2011-12)
PAPER V – PHYSIOTHERAPY**

Q.P. Code: 821527

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Explain in detail about the Transcutaneous electrical nerve stimulation and add a note on iontophoresis.
2. Explain in detail about movements and its classification. Write a detailed note on active movement.

II. Write Notes on:

(10 x 5 = 50)

1. Short notes on UV rays.
2. Short notes on electrotherapy for Bell's palsy.
3. Short notes on wax therapy.
4. Short notes on Pain gate theory.
5. Write a short note on Microwave diathermy.
6. Short notes on gait and its types.
7. Short notes on exercise therapy and electrotherapy for frozen shoulder.
8. Short notes on Motor points of hands and leg.
9. Short notes on walking aids.
10. Short notes on Interferential therapy.

III. Short Answers on:

(10 x 2 = 20)

1. Define lenz's law.
2. Faradic foot bath.
3. Define stretch reflex.
4. Define osteokinematics.
5. Define rheostat.
6. Difference between dynamic and ballistic stretch.
7. Define impedance.
8. Define neurotemesis.
9. What is pelvic tilt?
10. Define pulley.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BNYS 0725]

**JULY 2025
(MAY 2025 EXAM SESSION)**

Sub. Code: 1527

**B.N.Y.S. DEGREE EXAMINATION
FOURTH YEAR
(For the candidates admitted from the academic year 2011-12)
PAPER V – PHYSIOTHERAPY**

Q.P. Code: 821527

Time: Three Hours

Answer ALL questions

Maximum : 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Explain in detail about Infra-red radiation. Describe the therapeutic effects, dangers and contra-indications of Infra -red radiations.
2. Define Crutches, Types and classification of crutches and add a note on measuring the auxiliary crutches.

II. Write Notes on:

(10 x 5 = 50)

1. Write the principles of muscle strengthening.
2. Write the techniques of Relaxation.
3. Explain about the types of gaits.
4. Ultra-violet radiation.
5. Write the various tests for muscle contraction.
6. Write a short note on Pain Gate Theory.
7. Electrotherapy management for Rheumatoid arthritis.
8. Physiotherapy management for Hemiplegia.
9. Write about Fundamental starting positions with efforts and uses.
10. What are the factors that are responsible for good posture?

III. Short Answers on:

(10 x 2 = 20)

1. Iontophoresis.
2. Magnetic Intensity.
3. Physio-exercises for Osteoarthritis.
4. Electro therapy for Trigger finger.
5. Line of gravity.
6. Fixation and stabilization.
7. Second order levers.
8. Define Frequency.
9. Springs and pulleys.
10. Isometric Contraction.
