

**APRIL 2001**

**[KD 603]**

**MASTER OF PHYSIOTHERAPY DEGREE  
EXAMINATION.**

**Third Semester**

**Paper III — P.T. IN ORTHOPAEDICS AND  
GERIATRICS**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. Describe the importance of physical fitness tests in geriatric population. (20)
2. Describe the principles of amputation and physiotherapy management in Syme's Amputation. (20)
3. Define ageing. Describe physiological changes in ageing. Describe at least three physiotherapeutic interventions to overcome these. (20)
4. Explain Mechanics of dislocation of shoulder and physiotherapeutic rehabilitation. (20)

5. Write short notes on :

(4 × 5 = 20)

- (a) Cervical spondilitis
- (b) Periarthritis of shoulder
- (c) Osteoporosis
- (d) Obesity.

**NOVEMBER 2001**

**[KE 603]**

**Sub. Code : 8003**

**MASTER OF PHYSIOTHERAPY (M.P.T.) DEGREE  
EXAMINATION.**

**Paper III — P.T. IN ORTHOPAEDICS AND  
GERIATRICS**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

**All questions carry equal marks.**

1. Role of physiotherapy in geriatrics. (20)
  2. Describe the principles of amputation and physiotherapy management in "Below knee amputation". (20)
  3. Physiotherapy management programme for a post ACL repair patient. (Anterior Cruciate Ligament). (20)
  4. Discuss mobilisation techniques. (20)
  5. Write short notes on : (4 × 5 = 20)
    - (a) Tibialis anterior compartment syndrome
    - (b) Tennis elbow
    - (c) Tapine techniques in sport
    - (d) Flat feet.
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**MARCH 2002**

**[KG 603]**

**Sub. Code : 8003**

**MASTER OF PHYSIOTHERAPY DEGREE  
EXAMINATION.**

**Second Year — New Regulation**

**Paper III — P.T. IN ORTHOPAEDICS AND  
GERIATRICS**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. Identify the role of physiotherapy in management of Rheumatoid hand, indicating the role of assistive devices. (20)
2. Describe the process of Ageing with reference to Osteoporosis, joints pains. How will you manage this problem? (20)
3. Discuss the biomechanical variation seen in the different types of orthopaedic gaits. Describe your methods of assessment. (20)
4. Mobilisation versus Manipulation. Write an essay comparing and contrasting these two methods. (20)

5. Write short notes on : (4 × 5 = 20)

- (a) Tendon transfers management in hand function
  - (b) Implication of Limb length discrepancy
  - (c) Changes in weight transfer with postural deviation of spine
  - (d) Architecture of femur.
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**SEPTEMBER 2002**

**[KH 603]**

**Sub. Code : 8003**

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE  
EXAMINATION.**

**Second Year — New Regulations**

**Paper III — P.T. IN ORTHOPAEDICS AND  
GERIATRICS**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. Role of physiotherapy in geriatrics. (20)
  2. Describe the principles of amputation and physiotherapy management in "Above Knee" amputation. (20)
  3. Physiotherapy programme for a post menisectomy patient. (20)
  4. Review role of manual therapy in ankle injuries. (20)
  5. Write short notes : (4 × 5 = 20)
    - (a) Tarsal Tunnel syndrome
    - (b) Tibialis anterior compartment syndrome
    - (c) Mobilisation
    - (d) Taping in sports.
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**APRIL 2003**

**[KI 603]**

**Sub. Code : 8203**

**MASTER OF PHYSIOTHERAPY DEGREE  
EXAMINATION.**

**Second Year**

**(New Regulations)**

**Paper III — PHYSIOTHERAPY IN ORTHOPAEDICS  
AND GERIATRICS**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

**All questions carry equal marks.**

1. Describe the assessment and management of scoliosis in detail. (20)
2. Describe the principles of physical training and physical training in Geriatric population. (20)
3. Describe in detail Anterior dislocation of shoulder and its reconstructive procedures with the P.T. management in detail. (20)
4. Describe the clinical features in Pott's Paraplegia and rehabilitation of complete para below T<sub>4</sub> with special emphasis on bladder management. (20)

5. Write short notes on the Physiotherapy management in : (4 × 5 = 20)

- (a) Brachial plexus lesion.
- (b) Osteoporosis.
- (c) Spondylolisthesis.
- (d) Obesity.

# OCTOBER 2003

[KJ 603]

Sub. Code : 8203

## MASTER OF PHYSIOTHERAPY DEGREE EXAMINATION.

Second Year

(New Regulations)

### Paper III —PHYSIOTHERAPY IN ORTHOPAEDICS AND GERIATRICS

Time : Three hours

Maximum : 100 marks

Theory : Two hours and forty minutes Theory : 80 marks

M.C.Q. : 20 minutes

M.C.Q. : 20 marks

M.C.Q. must be answered **SEPARATELY** on the answer sheet provided as per the instructions on the first page.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions : (2 × 15 = 30)

1. Explain in detail the structure and morphological features of synovial membrane. Add a note on its reaction to injury and management.
2. Classify Fractures. List the fractures of Forearm and explain the management of Colle's Fracture.

II. Write short notes on the following : (10 × 5 = 50)

1. Explain the biological basis of Passive Range of Motion Exercises.
2. Compare and contrast Accessory and Physiological Movements.
3. What are the principles of Spinal Orthosis?
4. Explain the clinical consequences of Anteversion of the Hip.
5. Briefly write about the rehabilitation protocol for Ankle Ligament Injury.
6. What is the importance of Uncovertebral Joints in the Cervical Spine Pathologies?
7. Describe Extensor Expansion with appropriate diagram.
8. Iliopsoas Bursitis.
9. What is Legg-Calve'- Perthes Disease? Explain the role of physiotherapy in this condition.
10. Hallux Rigidus.

**APRIL 2004**

**[KK 603]**

**Sub. Code : 8203**

**MASTER OF PHYSIOTHERAPY DEGREE  
EXAMINATION.**

**Second Year**

**(New Regulations)**

**Paper III — PHYSIOTHERAPY IN ORTHOPAEDICS  
AND GERIATRICS**

**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.**

**A. Essay : (2 × 15 = 30)**

**(1) Write an essay on physiological and  
therapeutic aspect of type I and type II muscle fibers.**

**(2) Discuss the evaluation and management in  
sero negative spondylo-arthropathy.**

**B. Write short notes : (10 × 5 = 50)**

**(1) Lumbar stabilization**

**(2) Neurological complications of orthopedic  
surgery**

- (3) Postural back ache**
  - (4) Management of sacro-iliac joint dysfunction**
  - (5) Excision arthroplasty for meta-tarsalgia**
  - (6) Pathophysiology of diabetes**
  - (7) Plica syndrome**
  - (8) Physiological changes in aged**
  - (9) Chondromalacia patellae.**
  - (10)  $\text{VO}_2$  max.**
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# AUGUST 2004

[KL 603]

Sub. Code : 8203

## MASTER OF PHYSIOTHERAPY DEGREE EXAMINATION.

Second Year

(New Regulations)

### Paper III — PHYSIOTHERAPY IN ORTHOPAEDICS AND GERIATRICS

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 : (2 × 15 = 30)

(1) Write an essay on Fitness in Geriatrics.

(2) Discuss choice of Amputation surgeries and its management with respect to Symes versus below Knee amputation.

II. Write Short notes : (10 × 5 = 50)

(a) Reflex Sympathetic Dystrophy.

(b) Assessment of Postural deviation.

(c) Sports injuries around Knee joint.

(d) Congenital hip dislocation.

(e) Implant arthroplasty.

(f) Physiological changes in the Aged.

(g) Role of rotator cuff muscles in peri-arthritis.

(h) Anaerobic threshold.

(i) Glucose Tolerance test.

(j) Athletic diet.



# FEBRUARY 2005

[KM 603]

Sub. Code : 8203

MASTER OF PHYSIOTHERAPY DEGREE  
EXAMINATION.

Second Year

(New Regulations)

### Paper III — PHYSIOTHERAPY IN ORTHOPAEDICS AND GERIATRICS

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 question :

 $(2 \times 15 = 30)$ 

(1) What are the indications for Total Shoulder Arthroplasty. List down the various types of prosthesis available and explain the rehabilitation when a Constrained Prosthesis is used.

(2) Classify Acetabular Fractures. Explain Physical Examination, diagnosis and management.

II. Write short notes :

(10 × 5 = 50)

(a) What are the aims of management of Ankylosing Spondylitis?

(b) De quervain's Disease

(c) Buerger's Disease

(d) Juvenile Kyphosis

(e) High Tibial Osteotomy

(f) Phantom pain

(g) **Shoulder Impingement Syndrome**

(h) Boutonniere deformity

(i) Straight Leg Raising

(j) Patterns of Presentation of Psoriatic Arthritis.

# AUGUST 2005

[KN 603]

Sub. Code : 8203

## MASTER OF PHYSIOTHERAPY DEGREE EXAMINATION.

Second Year

(New Regulations)

### Paper III — PHYSIOTHERAPY IN ORTHOPAEDICS AND GERIATRICS

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 in detail the long term rehabilitation of ankle sprain.

(2) Discuss physiological changes occurring in the geriatric population, your physiotherapeutic intervention in overcoming these complications.

II. Short notes :

(10 × 5 = 50)

- (a) Electromyogram
- (b) Bankart repair
- (c) Tarsal tunnel syndrome
- (d) Thoracic-outlet syndrome
- (e) Physiotherapy management for rheumatoid arthritis
- (f) Surgical procedure for spondylolysis
- (g) Write briefly on various tests for checking maximal aerobic power
- (h) Sliding filament theory
- (i) Coxa vara
- (j) Complications of fracture shaft of humerus and its physiotherapy management.

**Sub. Code : 8203**

**MASTER OF PHYSIOTHERAPY DEGREE  
EXAMINATION.**

## Second Year

(New Regulations)

### Paper III — PHYSIOTHERAPY IN ORTHOPAEDICS AND GERIATRICS

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

<b>Theory : Two hours and forty minutes</b>	<b>Theory : 80 marks</b>
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**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) Write in detail the surgical and physiotherapy management for Brachial plexus injury.

(2) Rehabilitation of patient with Anterior cruciate ligament injury.

II. Short notes : (10 × 5 = 50)

(a) Operative correction and physiotherapy management of scoliosis.

(b) Spondylolysis.

(c) Physiotherapy management after total shoulder replacement.

(d) Avascular necrosis of femoral head and its management.

(e) **Diastematomyelia.**

(f) **Osteoporosis.**

(g) Principles and types of lower limb amputations.

(h) **Spinal orthosis.**

(i) Special tests used to diagnose Bicipital tendonitis.

(j) Patellectomy and its physiotherapy management.

**[KR 603]**

**Sub. Code : 8203**

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE  
EXAMINATION.**

## Second Year — New Regulations

### Paper III — P.T. IN ORTHOPAEDICS AND GERIATRICS

**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.**

### I. Essay :

- (1) Type, measurements, brace, exercises with brace, operative correction and physiotherapy management of scoliosis. (20)

- (2) Describe in detail of Pott's fracture and its physiotherapy evaluation and its management. (15)

- (3) 20 years old female sustained supra condylar fracture of left humerus. Discuss its physiotherapy evaluation and management in detail. Discuss its complication in brief. (15)

## II. Short notes :

**(6 × 5 = 30)**

- (a) Ergonomic chair
- (b) Grading of muscle spasm
- (c) Anatomy of articular cartilage
- (d) Principles of joint protection technique in arthritides
- (e) Sliding traction
- (f) Gait alterations in flat foot.