

[KD 606 C]

APRIL 2001

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

Fourth Semester

Paper III — PHYSIOTHERAPY — *Elective*
(ORTHO)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe evaluation of gait and its deviations. (20)
 2. Describe the basis for manual therapy and mobilization skills. (20)
 3. Discuss role of physiotherapy in arthroplasty of hip joint. (20)
 4. Describe role of physiotherapy in scoliosis unit. (20)
 5. Short notes : (4 × 5 = 20)
 - (a) Ankle sprain
 - (b) Ageing and joints
 - (c) Lordosis
 - (d) Limb length discrepancy.
-

NOVEMBER 2001

[KE 606 C]

Sub. Code : 8006

MASTER OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Paper VI — PHYSIOTHERAPY IN
ORTHOPEDICS — (*Elective*)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. Describe the architecture of femur, hip joint arthroplastics and P.T Management following the same? (20)
 2. Describe deformities in a Rheumatoid hand write prevention and P.T. Management for the same. (20)
 3. Describe biomechanics of knee joint. Write P.T. Management following meniscal injuries in football players. (20)
 4. Write about disc behaviour during spinal movements. P.T. Management for Lowback ache in industrial workers? (20)
 5. Write short notes on : (4 × 5 = 20)
 - (a) Scoliosis
 - (b) Above knee amputation
 - (c) Limb length discrepancy
 - (d) Brachial Plexus injury.
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MARCH 2002

[KG 606 A]

Sub. Code : 8006

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

(Common to New/Revised Regulations)

ADVANCED PHYSIOTHERAPY IN
ORTHOPAEDICS — (*Elective*)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe evaluation of Muscles and Joints. (20)
 2. Describe principles of Management of Sports injuries. (20)
 3. Describe recent trends in Orthopaedic Manual therapy. (20)
 4. Describe Gait deviations and management. (20)
 5. Short notes : (4 × 5 = 20)
 - (a) Claw hand
 - (b) Arches of foot
 - (c) Recurrent Ankle sprain
 - (d) Below knee Amputation.
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SEPTEMBER 2002

[KH 606 A]

Sub. Code : 8006

MASTER OF PHYSIOTHERAPY (MPT) DEGREE
EXAMINATION.

(Common to New/Revised Regulations)

ADVANCED PHYSIOTHERAPY IN
ORTHOPAEDICS — (*Elective*)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the management of a bilateral above knee amputations. Emphasise on its prosthetic management and gait training. (10 + 10 = 20)
2. Essay on clinical features and management of a 20 year old salesman suffering from acute PID. Add a note on Ergonomical measures. (14 + 6 = 20)
3. Classify spinal fractures. Write down the management of T₁₀ paraplegic, following fall from a height. (5 + 15 = 20)
4. Define posture. What are the types of abnormal postures. Discuss the complications of a kypnotic posture and management in an adolescent girl. (3 + 5 + 6 + 6 = 20)

5. Short notes : (4 × 5 = 20)

- (a) Tennis Elbow with a note on management with manual therapy.
- (b) Economical Energy expenditure in human locomotion.
- (c) Arches of the hand.
- (d) Capsular stretching in frozen shoulder.

OCTOBER 2003

[KJ 606 A]

Sub. Code : 8006

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

(Common to New/Revised Regulations)

**ADVANCED PHYSIOTHERAPY
IN ORTHOPAEDICS — (Elective)**

Time : Three hours Maximum : 100 marks
Theory : Two hours and Theory : 80 marks
 forty minutes M.C.Q. : 20 marks
M.C.Q. : Twenty minutes

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. Long Essay : (2 × 15 = 30)

1. Limb length discrepancy in polio and role of physiotherapy for the same.
2. Describe differential diagnosis of Acute injury to the right knee in a 25 year of male foot ball player with the help of clinical examination and investigations. Explain rehabilitation protocol for reconstructive surgery of Anterior cruciate ligament.

II. Short Notes : (10 × 5 = 50)

1. Mulligan's manual therapy.
2. PT management of THR (Total Hip Replacements).
3. Examination of Scoliosis.
4. Arches of foot and clinical implication.
5. Podiometry.
6. Rheumatic hand.
7. Pathological gaits.
8. Differential diagnosis for Ankylosing spondylitis.
9. Complication and its prevention for above knee amputation.
10. Postural Deviations.

Sub. Code : 8006

[KK 606 A]

AUGUST 2004

[KL 606 A]

Sub. Code : 8006

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

(Common to New/Revised Regulations)

**ADVANCED PHYSIOTHERAPY IN
ORTHOPAEDICS — (Elective)**

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) Describe evaluation of gait and its deviations.

(2) Rehabilitation of shoulder after arthroplasty?

II. Short questions : (10 × 5 = 50)

(a) Fat pad syndrome

(b) Guyon's canal

(c) How will you manage 2 year old baby with congenital dislocation of Hip?

(d) Physiotherapy protocol for ankylosing spondylitis.

(e) Plyometrics.

(f) Limb length discrepancy.

(g) Arches of foot.

(h) Architecture of femur.

(i) Thoracic outlet syndrome.

(j) McKenzie approach in spine.

FEBRUARY 2005

[KM 606 A]

Sub. Code : 8006

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

(Common to New/Revised Regulations)

***Elective — ADVANCED PHYSIOTHERAPY IN
ORTHOPAEDICS***

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) Explain the effects of thoracic kyphosis on
the function of shoulder joint.**

**(2) Discuss the role of genetic and training on
athletes and their performances.**

II. Short notes : (10 × 5 = 50)

**(a) Differentiate between mallet finger and
swan neck deformity.**

(b) Lateral scapular slide test

(c) Posterior lurching gait

(d) Pellegrini-stieda's disease

(e) Internal architecture of femur

(f) Arches of hand

(g) Physiology of shoulder abduction

**(h) Grades of joint mobilization according to
maitland**

(i) Age related changes in bones

(j) Manual grading of accessory joint motion.

AUGUST 2005

[KN 606 A]

Sub. Code : 8006

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

(Common to New/Revised Regulations)

ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS — (Elective)

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 :

$$(2 \times 15 = 30)$$

(1) Discuss joints of foot and briefly explain the various deformities of foot.

(2) Describe the development of skeletal system and explain the effects of exercise and ageing on the skeletal system.

II. Short notes :

(10 × 5 = 50)

(a) Evaluation of sacroiliac dysfunction.

(b) Kinetics of gait.

(c) Physiotherapy management for occupational back pain.

(d) Neurobiology of joint.

(e) Tests for patellofemoral dysfunction.

(f) Podiometry.

(g) Continuous passive motion.

(h) Spondylosis and spondylolysis.

(i) Principles and functions of orthopaedic splints.

(j) **Postural scoliosis.**

SEPTEMBER 2006

[KP 606 A]

Sub. Code : 8006

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

(Common to New/Revised Regulation)

ADVANCED PHYSIOTHERAPY IN
ORTHOPAEDICS – (*Elective*)

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. Long Essay :

(1) What are the indications for Total Knee Replacement? Discuss Pre and Post-operative physiotherapeutic assessment and management for a 30 year old male who has undergone Total Knee Replacement. (20)

(2) Discuss the Physiotherapy management for a 40 year old House wife diagnosed with Rheumatoid arthritis. (15)

(3) Discuss the Physiotherapy management for a 25 year old student with recurrent dislocation of shoulder. (15)

II. Short notes :

(6 × 5 = 30)

- (a) Flat foot
- (b) Colle's Fracture
- (c) Neurogenic Bladder
- (d) Principles of Tendon transfer
- (e) Recurrent dislocation of patella
- (f) Isokinetic exercises.

FEBRUARY 2007

[KQ 606 A]

Sub. Code : 8006

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

(Common to New/Revised Regulation)

ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS — (Elective)

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

Theory : Two hours and forty minutes	Theory : 80 marks
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M.C.Q. : Twenty minutes **M.C.Q. : 20 marks**

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay:

(1) Define periarthritis shoulder, write in detail about the physiotherapy assessment and management of periarthritis shoulder with special emphasis on joint mobilization techniques. (20)

(2) What is Avascular necrosis of hip joint. Describe the physiotherapy rehabilitation protocol for a 50 year old male who underwent right uncemented total hip replacement due to avascular necrosis. (15)

(3) A 15 year old boy is suffering from juvenile left dorsal scoliosis. Discuss about the plan of your assessment and management for the same. (15)

II. Short notes : (6 × 5 = 30)

- (a) Pneumatic post amputation mobility aid
- (b) Arches of foot
- (c) Self "snags" techniques for lumbar spine
- (d) Rheumatoid hand
- (e) Ageing and joints
- (f) Lateral ligament injury of ankle joint.

MARCH 2008

[KS 606 A]

Sub. Code : 8104

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

(Common to New/Revised Regulation)

**ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS
(Elective)**

Q.P. : Code 278104

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Long Essay : (2 × 20 = 40)

1. Discuss the tendon transfer for brachial plexus injured patients and post operative rehabilitation.
2. Physiotherapy evaluation of low back pain and its management. Discuss about its differential diagnosis in detail.

II. Short notes : (10 × 6 = 60)

1. Gleno humeral instability.
2. Physiotherapy evaluation of erector spinae muscle.

3. Myofacial pain syndrome.
4. Limb length discrepancy.
5. Avascular necrosis.
6. Rheumatoid hand.
7. TVS brace.
8. Foot wear assessment.
9. Principles of geriatric rehabilitation.
10. Bio mechanical changes in flat foot.

September 2008

[KT 606 A]

Sub. Code : 8104

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

(Common to New/Revised Regulation)

ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS
— (*Elective*)

Q.P. Code : 278104

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Long Essay : (2 × 20 = 40)

1. Describe the indications and complications of lower limb amputations. Describe the rehabilitation of a twenty five year old male with bilateral above knee amputation. (20)

2. Outline the indications and types of hip arthroplasty. Describe physiotherapy management and home advice for a patient who has undergone total hip replacement. (20)

II. Write Short notes on :

(10 × 6 = 60)

1. Klumpke's palsy.
 2. Golfer's elbow.
 3. Osgood Schlatter's disease.
 4. Structural gait deviations.
 5. Pes cavus.
 6. Scapulo-humeral rhythm.
 7. Poly myalgia Rheumatica.
 8. Arches of foot.
 9. Adhesive capsulitis.
 10. Neurogenic bladder.
-

March 2009

[KU 606 A]

Sub. Code: 8104

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

(Common to New/Revised Regulation)

Elective – ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS

Q.P. Code : 278104

Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams where ever necessary

I. Essay questions :

(2 x 20 = 40)

1. Discuss the physiotherapy management for an 18 year old student with recurrent dislocation of patella.
2. Discuss PT management of scoliosis in detail.

II. Write short notes on :

(10 x 6 = 60)

1. Skin Grafting.
2. Avascular necrosis.
3. Carpal tunnel syndrome.
4. Syme's amputation.
5. Physiotherapy in lymphoedema management.
6. Exercises for those at risk of osteoporosis.
7. Foot wear assessment.
8. Poly myalgia rheumatica.
9. Principles of geriatric rehabilitation.
10. TVS BRACE.

September 2009

[KV 606 A]

Sub. Code: 8104

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

(Common to New/Revised Regulation)

Elective – ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS

Q.P. Code : 278104

Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams where ever necessary

I. Essay questions :

(2 x 20 = 40)

1. Write in detail the physiotherapy management for total hip replacement.
2. 25 yrs. Old female suffering from RA. Write about physiotherapy assessment and management. Discuss about prevention of joint deformity in brief.

II. Write short notes on :

(10 x 6 = 60)

1. Dupuytren's contracture.
2. Arches of foot.
3. Foot drop.
4. Rickets.
5. Tennis elbow.
6. Pseudo-Boutonniere deformity.
7. What is plica syndrome?
8. Meralgia paresthetica.
9. Podiometry.
10. Ergonomic advice for a physiotherapist.

March 2010

[KW 704]

Sub. Code: 8104

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

(Common to New/Revised Regulation)

Elective – ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS

Q.P. Code : 278104

Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams where ever necessary

I. Essay questions :

(2 x 20 = 40)

1. Discuss in detail the development of musculo skeletal system.
2. Outline the indications and type of knee arthroplasty.
Describe the physiotherapy management and home advice for a patient who had undergone total knee replacement.

II. Write short notes on :

(10 x 6 = 60)

1. Pyogenic osteo myelitis tibia.
2. Traction.
3. Frozen shoulder.
4. Osteoporosis.
5. Ankle sprain.
6. Protective means for soft tissue injuries.
7. Physiotherapy management of fracture acromion process.
8. Physiotherapy evaluation of erector spinae muscle.
9. Radial tunnel syndrome.
10. Hydrotherapy for rheumatic conditions.

September 2010

[KX 704]

Sub. Code: 8104

**MASTER OF PHYSIOTHERAPY (MPT)
DEGREE EXAMINATION
SECOND YEAR**

Revised Regulation

For candidates admitted from 2000-2001 onwards & 2005-2006 onwards

Paper – II Physiotherapy (Elective Subject)

ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS – (Elective)

Q.P. Code : 278104

Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams where ever necessary

I. Essay Questions :

(2 x 20 = 40)

1. Describe the role of physiotherapy in the management of Osteo Arthritis.
2. Describe the assessment and management of a case of 10 years old Polio girl with secondary scoliosis.

II. Write Short Notes :

(10 x 6 = 60)

1. Recurrent shoulder dislocation.
2. Rheumatoid Hand.
3. Physiotherapy for skin grafts in burns.
4. Biomechanical changes in flat foot.
5. Myofascial pain syndrome.
6. De Quervain's disease.
7. Colle's fracture.
8. Spondylolisthesis.
9. Below-knee prosthesis.
10. Sprain and strain management.

MAY 2011

[KY 704]

Sub. Code: 8104

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

SECOND YEAR

Revised Regulation :

For candidates admitted from 2000-2001 onwards & 2005-2006 onwards

PAPER – II PHYSIOTHERAPY (Elective Subject)

ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS – (Elective)

Q.P. Code : 278104

Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams where ever necessary

I. Essay Questions : (2 x 20 = 40)

1. Discuss in detail physiotherapy management for a 25 years old male who had anterior dislocation of right shoulder. Add a note on various surgical procedures.
2. A 55 years old female suffering from right osteo arthritis of hip for past 8 years and posted for the surgery. Discuss in detail the pre-operative and post operative measures for the condition in detail and add a note on architectural barrier.

II. Write Short Notes : (10 x 6 = 60)

1. Exercise with Milwaukee Brace.
2. Biomechanical changes of congenital flat foot.
3. Significance of Straight Leg Raise and its interpretation.
4. Physiotherapy management of Bimalleolar fracture of ankle joint.
5. Codman's pendular exercises.
6. Prevention of osteoporosis.
7. Tennis elbow.
8. Classification and complications of fracture.
9. Radiological investigation for TB Spine.
10. TA Tendinitis.

October 2011

[KZ 704]

Sub. Code: 8104

MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION

SECOND YEAR

PAPER – II PHYSIOTHERAPY (ELECTIVE SUBJECT)

ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS – (ELECTIVE)

Q.P. Code : 278104

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Write an essay on Total hip replacement for 66 year old gentleman. Add a brief note on precautions and Home program.	17	40	20
2. Write an assessment on 60 year old man having below knee amputation following diabetes.	17	40	20

II. Write notes on :

1. Tennis Elbow.	4	10	6
2. Mckenzie exercises for back pain.	4	10	6
3. RA hand.	4	10	6
4. Complications following supracondylar fracture.	4	10	6
5. Pes Plannus.	4	10	6
6. Protocol for ACL reconstruction.	4	10	6
7. Principles of Manual therapy.	4	10	6
8. Spondylolisthesis.	4	10	6
9. Grades of tenderness.	4	10	6
10. Rule of nine.	4	10	6

April 2012

[LA 704]

Sub. Code: 8104

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

**PAPER – II PHYSIOTHERAPY (ELECTIVE SUBJECT)
ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS – (ELECTIVE)**

Q.P. Code : 278104

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

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

- | | | | |
|--|----|----|----|
| 1. Discuss in detail special tests for various conditions of knee joint. | 17 | 40 | 20 |
| 2. Define pain, theories, types, pathway, assessment and management of pain at spinal and brainstem level. | 17 | 40 | 20 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. Garden's classification of fracture head of femur. | 4 | 10 | 6 |
| 2. Painful arc syndrome. | 4 | 10 | 6 |
| 3. Muscle re-education. | 4 | 10 | 6 |
| 4. Measurement of sub talar joint. | 4 | 10 | 6 |
| 5. Endo skeleton prosthesis. | 4 | 10 | 6 |
| 6. Supracondylar fracture of humerus. | 4 | 10 | 6 |
| 7. Mallet finger. | 4 | 10 | 6 |
| 8. Fracture clavicle. | 4 | 10 | 6 |
| 9. Avascular necrosis. | 4 | 10 | 6 |
| 10. Method of applying skin traction. | 4 | 10 | 6 |

[LC 704]

**APRIL 2013
MPT DEGREE EXAMS
SECOND YEAR**

Sub. Code: 8104

**PAPER – II PHYSIOTHERAPY (ELECTIVE SUBJECT)
ADVANCED PHYSIOTHERAPY IN ORTHOPAEDICS – (ELECTIVE)**

Q.P. Code : 278104

Time : 3 hours

Maximum : 100 marks

I. Elaborate on :

(2x20=40)

1. A 45 years old female suffering from RA for past 15 years with deformity of upper and lower limb. Discuss the role of physiotherapist in above patients and importance of architectural barrier for the same.
2. Discuss physiotherapy assessment and management of intra capsular and extra capsular fracture of head of femur. Add a note on its complications.

II. Write notes on :

(10x6=60)

1. Progressive spinal extension exercise protocol.
2. Plantar fasciitis.
3. Limb length measurement.
4. Posture evaluation of scoliosis.
5. Golfer's elbow.
6. Tension band wiring.
7. Flexor zone of hand.
8. Complications of Colle's fracture and its prevention.
9. Gait deviations in below knee prosthesis.
10. Role of splints.
