

APRIL 2001

[KD 1551]

Sub. Code : 3063

**DIPLOMA IN PHYSICAL MEDICINE AND
REHABILITATION EXAMINATION.**

(New Regulations)

Part II

**Paper II — PHYSICAL MEDICINE AND
REHABILITATION OF MUSCULOSKELETAL
DISORDERS AND AMPUTATION SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the etiopathology, clinical features and management of a case of Osteogenesis imperfecta including its rehabilitation. (25)
 2. Discuss the general principles of amputation surgery in lower extremities and highlight the importance of recent trends in amputation surgery in amputee rehabilitation. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Shoulder-Hand syndrome
 - (b) Pylon
 - (c) Phantom limb
 - (d) Volkmann's ischaemic contracture
 - (e) Myofascial trigger points.
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NOVEMBER 2001

[KE 1551]

Sub. Code : 3063

**DIPLOMA IN PHYSICAL MEDICINE AND
REHABILITATION EXAMINATION.**

(New Regulations)

Part II

**Paper II — PHYSICAL MEDICINE AND
REHABILITATION OF MUSCULOSKELETAL
DISORDERS AND AMPUTATION SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the etiology, pathogenesis and clinical profile of osteoarthritis. Detail the management of osteoarthritis of knee joint. (25)
 2. Outline the recent advances in Prosthetic technology that could be utilized for rehabilitation of an Above-elbow amputee. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) "Surgical shoes"
 - (b) Pressure sores
 - (c) Ideal stump
 - (d) Sternomastoid tumour
 - (e) Clubfoot.
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MARCH 2002

[KG 1551]

Sub. Code : 3063

**DIPLOMA IN PHYSICAL MEDICINE AND
REHABILITATION EXAMINATION.**

(New Regulations)

Part II

**Paper II — PHYSICAL MEDICINE AND
REHABILITATION OF MUSCULOSKELETAL
DISORDERS AND AMPUTATION SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the various causes of cervical spine instability. Discuss their management and rehabilitation. (25)
 2. Classify congenital limb deficiencies. Explain their rehabilitation. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Myositis ossificans progressiva.
 - (b) Skier's thumb.
 - (c) Arthrogryposis.
 - (d) Tietze's syndrome.
 - (e) Batson's plexus.
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SEPTEMBER 2002

[KH 1551]

Sub. Code : 3063

**DIPLOMA IN PHYSICAL MEDICINE AND
REHABILITATION EXAMINATION.**

(New Regulations)

Part — II

**Paper II — PHYSICAL MEDICINE AND
REHABILITATION OF MUSCULOSKELETAL
DISORDERS AND AMPUTATION SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe primary osteoarthritis of knee and conservative management. (25)
 2. Describe cervical disc prolapse, pathogenesis, clinical manifestation and conservative management. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) William's exercise
 - (b) LASER
 - (c) SD curve
 - (d) CATCAM –Ischial Containment Socket
 - (e) Cobb's angle.
-

AUGUST 2004

[KL 1551]

Sub. Code : 3063

DIPLOMA IN PHYSICAL MEDICINE AND
REHABILITATION EXAMINATION.

(New Regulations)

Paper II — PHYSICAL MEDICINE AND
REHABILITATION OF MUSCULO-SKELETAL
DISORDERS AND AMPUTATION SURGERY

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

Draw suitable diagrams wherever necessary.

Answer ALL questions.

I. Essay : (2 × 15 = 30)

(1) A 20 years old farmer's lower limbs are recently amputated (Trauma-RTA), above knee on the right limb and below knee on Left limb.

How should he be rehabilitate him?

(2) A 56 yrs. old housewife with rheumatoid arthritis (steinbrocker's function criteria grade - III) has undergone a total hip replacement is transferred on 10th post operative day, for rehabilitation. How could she be rehabilitated?

II. Short notes : (10 × 5 = 50)

- (a) Post poliomyelitis syndrome
- (b) How would 'Physiatry' be improved in the medical profession.
- (c) Instrumental Activities of Daily Living (IADL)
- (d) Laser in physiatry
- (e) Plantar fasciitis
- (f) Management of Osteoarthrosis of knee
- (g) Footwear modifications
- (h) Becker's myopathy - Key management issues
- (i) Key issues in paediatric upper limb amputees
- (j) Myoelectric prosthesis.

SEPTEMBER 2006

[KO 1551]

Sub. Code : 3063

DIPLOMA IN PHYSICAL MEDICINE AND
REHABILITATION EXAMINATION.

PHYSICAL MEDICINE AND REHABILITATION OF
MUSCULO SKELETAL DISORDERS AND
AMPUTATION SURGERY

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

Draw suitable diagrams wherever necessary.

Answer ALL questions.

I. Write essays on : (2 × 15 = 30)

(1) Define Amputation. What are the various levels of amputation in the lower limb? Describe the rehabilitation process for an electric train accident patient who had undergone left above knee amputation and right above amputation.

(2) Define the terms kinetics and kinematics. What are the determinants of gait? Describe the normal gait cycle. How does the gait analysis help the physiatrists in planning the intervention.

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

(a) Reflex sympathetic dystrophy.

(b) Genu recurvatum.

(c) Check out of HKAFO.

(d) Syme's prosthesis.

(e) Milwaukee Brace.

(f) Rheumatoid hand.

(g) Club foot.

(h) Myoelectric prosthesis.

(i) Adhesive capsulitis.

(j) Scott Craig orthosis.

[KQ 1557] MARCH 2007 Sub. Code : 3063

DIPLOMA IN PHYSICAL MEDICINE AND
REHABILITATION EXAMINATION.

PHYSICAL MEDICINE AND REHABILITATION OF
MUSCULO-SKELETAL DISORDERS AND
AMPUTATION SURGERY

Common to

Part II – Paper II — (Candidates admitted from 1993–94
onwards)

and

Paper III — (Candidates admitted from 2004–05 onwards)

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 :

1. Define normal gait. What are the determinants of
gait? Add a note on various abnormal gait patterns. (20)

2. How will you evaluate a young woman with Low
Back pain of two months duration? (15)

3. Describe the etiology, clinical features,
investigations and rehabilitation of Ankylosing
spondylitis. (15)

II. Short Notes : (6 × 5 = 30)

- (a) Phantom pain.
 - (b) Syme's prosthesis.
 - (c) Adhesive capsulitis.
 - (d) Rheumatoid hand.
 - (e) Various sockets for below knee prosthesis.
 - (f) Kegel's exercise.
-

MARCH 2008

[KS 1557]

Sub. Code : 3070

DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
EXAMINATION.

Paper III — PHYSICAL MEDICINE AND REHABILITATION OF
MUSCULO – SKELETAL DISORDERS AND AMPUTATION
SURGERY

Common to all Regulations

Q.P. Code : 343070

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

I. Essay :

(2 × 20 = 40)

1. Discuss the clinical assessment, investigations, complications and rehabilitation of a young, married, male engineer with traumatic paraplegia of 6 weeks duration at D₁₂ vertebral level.
2. Outline the recent advances in Prosthetic technology that could be utilized for rehabilitation of below – elbow amputee.

II. Write short notes on :

(10 × 6 = 60)

1. Care of stump.
 2. Sternomastoid tumour.
 3. Therapeutic foot wear.
 4. Phantom limb.
 5. Volkmann's Ischaemic Contracture.
 6. Hand deformities in Rhenmatoid Arthritis.
 7. Below – Knee prostheses.
 8. Swing – through gait.
 9. Myositis ossificans.
 10. Gout.
-

MARCH -2009

[KU 1557]

Sub. Code: 3070

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
EXAMINATION.**

**Paper III – PHYSICAL MEDICINE AND REHABILITATION OF
MUSCULO – SKELETAL DISORDERS AND AMPUTATION SURGERY
(Common to all Regulations)**

Q.P. Code : 343070

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 20 = 40)

1. Describe the rehabilitation plans for a 19 year old college student with severe hemophilia A, presenting with right knee joint haemarthrosis. What are the types of Haemophilia? How is the severity of haemophilia graded? What are the steps for first aid home management of an acute bleed?
2. List the types of prosthetic knee joints. Describe the prosthetic rehabilitation of a young athlete following a traumatic trans-femoral amputation.

II. Write short notes on : (10 X 6 = 60)

1. Thermoplastic materials.
2. Tone-inhibiting ankle foot orthoses.
3. Role of rehabilitation in AIDS.
4. Tennis elbow.
5. Elbow-crutch gait.
6. Domains of activities of daily living.
7. Posture education in Ankylosing spondylosis.
8. Diazepam.
9. Guillian barre syndrome.
10. Parallel bars.

APRIL 2011

[KY 1557]

Sub. Code: 3070

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF
MUSCULO – SKELETAL DISORDERS AND AMPUTATION SURGERY**

Q.P. Code : 343070

**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. Discuss the Pathogenesis and management of hand deformities in Rheumatoid Arthritis.	11	35	15
2. Discuss the General principles and techniques of amputation surgery in lower limbs highlighting the recent trends.	11	35	15

II. Write notes on :

1. Thermoplastics in orthotics.	4	10	7
2. Energy storing artificial foot.	4	10	7
3. Later complications of malunited Colles fracture.	4	10	7
4. Weight relieving calipers.	4	10	7
5. Diagnosis and management of heel pain.	4	10	7
6. Phantom limb.	4	10	7
7. Myofascial Pain Syndrome.	4	10	7
8. Ambulatory index in paraplegics.	4	10	7
9. Recurrent dislocation of shoulder.	4	10	7
10. Myoelectric hand prosthesis.	4	10	7

April 2012

[LA 1557]

Sub. Code: 3070

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF MUSCULO – SKELETAL
DISORDERS AND AMPUTATION SURGERY**

Q.P. Code : 343070

**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. Discuss the management of a child with spastic diplegia with preserved cognitive function.	16	35	15
2. Discuss the management of a 40 year old male with acute low back ache.	16	35	15

II. Write notes on :

1. Advantages of community based rehabilitation.	4	10	7
2. Glasgow Coma Scale in the evaluation after acute brain injury.	4	10	7
3. Physiology and clinical significance of F-wave.	4	10	7
4. Indications and mechanism of action of drugs in Parkinson's disease.	4	10	7
5. Synovial fluid examination as a diagnostic tool in arthritis.	4	10	7
6. Role of Vitamin D in calcium homeostasis.	4	10	7
7. Advantages and demerits of Ischial containment socket.	4	10	7
8. Advantages of percutaneous endoscopic gastrostomy.	4	10	7
9. Different suspension systems for transtibial prosthesis.	4	10	7
10. Clinical features and investigations for L5S1 disc prolapse.	4	10	7

(LC 1557)

APRIL 2013

Sub. Code: 3070

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
(D.PHYS.MED.) EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF MUSCULO-
SKELETAL DISORDERS AND AMPUTATION SURGERY**

Q.P. Code: 343070

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Rehabilitation of a young railway employee with a traumatic right transfemoral amputation.
2. Knee osteoarthritis

II. Write notes on:

(10X7=70)

1. Weight relieving orthosis
2. Medications for pain relief
3. International classification of functioning (ICF)
4. Use of electrical stimulation - describe any 2 methods.
5. Antalgic gait
6. Vitamin D deficiency
7. Tenodesis
8. SACH foot and Madras foot.
9. Examination of scoliosis
10. Neuropathic pain

(LE 1557)

APRIL 2014

Sub. Code:3070

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
(D.PHYS.MED.) EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF MUSCULO-
SKELETAL DISORDERS AND AMPUTATION SURGERY**

Q.P.Code: 343070

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss the gait cycle? What are the determinants of gait? Add a note on the various pathological gaits?
2. Discuss the problems faced in below knee prosthetic fitting? How will you solve these problems?

II. Write notes on:

(10X7=70)

1. Describe the radiological changes in the knee joint affected by rheumatoid Arthritis.
2. Types of Cervical collars.
3. Write a note on the diagnosis of inflammatory back pain.
4. Indications for ankle foot orthosis.
5. Late complications of malunited Colles fracture.
6. Describe Stubby prosthesis and its use.
7. Discuss the deformities of the hand that can occur in rheumatoid arthritis.
8. What are the clinical features and complications that can occur in ankylosing spondylitis?
9. Discuss the principle and uses of tenodesis splint.
10. Write a note on energy storing prosthetic feet?

[LG 1557]

APRIL 2015

Sub. Code: 3070

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
(D.PHYS.MED.) EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF MUSCULOSKELETAL
DISORDERS AND AMPUTATION SURGERY**

Q.P. Code: 343070

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Diagnosis and Management of Fibromyalgia.
2. Clinical symptoms signs and management of Periarthritis Shoulder.

II. Write notes on:

(10 x 7 = 70)

1. Management of 8 year old child with primary muscle disease.
2. Transhumeral amputation- Prosthetic Management
3. Heterotopic ossification.
4. Trophic Ulcers.
5. Circumduction gait pattern.
6. Ultrasound therapy in musculoskeletal pain.
7. Types of prosthetic knee joint.
8. Avascular necrosis of Hip.
9. Floor reaction orthosis.
10. Classification of pressure ulcers.

(LI 1557)

APRIL 2016

Sub. Code:3070

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
(D.PHYS.MED.) EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF MUSCULO-
SKELETAL DISORDERS AND AMPUTATION SURGERY**

Q.P.Code: 343070

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the pathophysiology and management of osteoporosis.
2. Discuss the management of a 7 year old child with proximal focal femoral deficiency.

II. Write notes on:

(10 x 7 = 70)

1. Pelvic floor exercise.
2. Hallux valgus.
3. Flexor tendon injuries of hand and management.
4. Q-angle.
5. Lymphoedema.
6. Floor reaction orthosis.
7. Vitamin D.
8. Thermoplastics.
9. Cold abscess.
10. Biological agents for Rheumatoid arthritis.

(LK 1557)

MAY 2017

Sub. Code:3070

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
(D.PHYS.MED.) EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF MUSCULO-
SKELETAL DISORDERS AND AMPUTATION SURGERY**

Q.P.Code: 343070

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the effects of prolonged immobilization and its management.
2. Discuss the role of splinting in management of deformities of hand in Rheumatoid arthritis.

II. Write notes on:

(10 x 7 = 70)

1. Anti CCP test (Anti Cyclic Citrullinated Peptide Antibody).
2. Knee joints for transfemoral amputee.
3. Denervation potentials.
4. Piriformis syndrome.
5. Gout.
6. Sacroiliitis.
7. Club foot.
8. Cervical rib.
9. Thermoplastics.
10. Complications of Colles fracture.

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
(D.PHYS.MED.) EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF MUSCULO-
SKELETAL DISORDERS AND AMPUTATION SURGERY**

Q.P.Code: 343070

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss various physical modalities used in musculoskeletal rehabilitation.
2. General principles and rehabilitation management of a trans humeral amputee.

II. Write notes on:

(10 x 7 = 70)

1. Exercise for physical inactivity and obesity.
2. Plyometric exercise.
3. Manual wheel chair components and accessories.
4. Idiopathic scoliosis.
5. Cruciform anterior spinal hyperextension thoracolumbosacral orthosis.
6. Orthotic management of genu recurvatum.
7. Phantom limb pain and residual limb pain.
8. Pes Anserine Tendonitis or bursitis.
9. Steroid in arthritis.
10. Spondyloarthropathy.

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
(D.PHYS.MED.) EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF MUSCULO-
SKELETAL DISORDERS AND AMPUTATION SURGERY**

Q.P. Code: 343070

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the prosthetic options for a young transtibial amputee.
2. Discuss the management of Brachial plexus injuries.

II. Write notes on:

(10 x 7 = 70)

1. ANA (Antinuclear Antibody).
2. Diagnostic tests in Duchenne Muscular Dystrophy.
3. Hydroxychloroquine.
4. Thromboangiitis Obliterans.
5. Shoulder hand syndrome.
6. Genu varum.
7. Neuropathic ulcer.
8. Enthesopathy.
9. Polyphasic potentials.
10. Heterotopic ossification.

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
(D.PHYS.MED.) EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF MUSCULO-
SKELETAL DISORDERS AND AMPUTATION SURGERY**

Q.P. Code: 343070

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Define : Low back pain. Discuss differential diagnosis and management of low back and leg pain.
2. General principles and rehabilitation management of a trans femoral amputee.

II. Write notes on:

(10 x 7 = 70)

1. Tibio tarsal disarticulation.
2. Sacroilitis.
3. Cervical radiculopathy.
4. Psoriatic arthritis.
5. Sulfasalazine.
6. Hand deformities in Rheumatoid arthritis.
7. Single axis constant friction prosthetic knee joint.
8. Self-suspending upper extremity prosthetic suspension.
9. Ankle foot orthosis.
10. Thoracolumbar corset.

[LQ 1557]

AUGUST 2020
(MAY 2020 SESSION)

Sub. Code: 3070

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
(D.PHYS.MED.) EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF MUSCULO-
SKELETAL DISORDERS AND AMPUTATION SURGERY**

Q.P. Code: 343070

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Enumerate the features of an ideal amputation. Discuss the prosthetic options available for a young 30 years old right transradial amputation.
2. Enumerate the differential diagnosis of shoulder and neck pain. Describe the clinical features, investigations and management of a case of cervical brachialgia.

II. Write notes on:

(10 x 7 = 70)

1. Piriformis syndrome
2. Metatarsalgia
3. ASH Brace
4. Osteomalacia
5. Meralgia paresthetica
6. CRPS
7. Radiological features of ankylosing spondylitis
8. Osgood Schlatter's disease
9. Ankle brachial index
10. Outcome measures in rehabilitation
