

APRIL 2001

[KD 1550]

Sub. Code : 3062

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

(New Regulations)

Part II

**Paper I — PHYSICAL MEDICINE AND
REHABILITATION OF NEUROLOGICAL AND
CARDIOTHORACIC DISORDERS**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the etiology, clinical features and management of Cerebral Palsy. (25)
 2. Describe the immediate and late measures of "Pulmonary Rehabilitation" of a young man with Quadriplegia at C3 vertebral level. (25)
 3. Write brief notes on : (5 × 10 = 50)
 - (a) Neurogenic bladder
 - (b) Vertebro-Basilar syndrome
 - (c) Entrapment neuropathy
 - (d) Post polio syndrome
 - (e) Cough.
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NOVEMBER 2001

[KE 1550]

Sub. Code : 3062

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

(New Regulations)

Part II

**Paper I — PHYSICAL MEDICINE AND
REHABILITATION OF NEUROLOGICAL AND
CARDIOTHORACIC DISORDERS**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. A young man aged 24 years sustained injury to cervical spine C5/6 with quadriplegia. Plan out the management from the site of accident to his final rehabilitation. (25)
 2. Evaluate "Peripheral Vascular Diseases" from the viewpoint of a Physiatrist. Add a note on the role of exercise therapy in the management. (25)
 3. Write brief notes on : (5 × 10 = 50)
 - (a) Postural drainage
 - (b) Stress incontinence of urine
 - (c) Erb's palsy
 - (d) Neuropathic joint
 - (e) Ventilators.
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MARCH 2002

[KG 1550]

Sub. Code : 3062

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

(New Regulations)

Part II

**Paper I — PHYSICAL MEDICINE AND
REHABILITATION OF NEUROLOGICAL AND
CARDIOTHORACIC DISORDERS**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the etiology, classification, evaluation and common complications of peripheral neuropathy. How will you rehabilitate a patient with diabetic peripheral neuropathy. (25)
 2. Discuss the patho physiology, clinical presentation, differential diagnosis and rehabilitation of a patient with Parkinson's disease. (25)
 3. Write brief notes on : (5 × 10 = 50)
 - (a) Massage.
 - (b) MET.
 - (c) Doppler ultrasonography.
 - (d) Gait analyser.
 - (e) Fretsaw machine.
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SEPTEMBER 2002

[KH 1550]

Sub. Code : 3062

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

(New Regulations)

Part II

**Paper I — PHYSICAL MEDICINE AND
REHABILITATION OF NEUROLOGICAL AND
CARDIOTHORACIC DISORDERS**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe Dyskinesia, enlist various Dyskintic disorders and how will you plan rehabilitation program for persons with one such disorder. (25)
 2. Describe the steps to institute rehabilitation program for a person with Myocardial Infarction admitted at ICCU. (25)
 3. Write brief notes on : (5 × 10 = 50)
 - (a) Bundle of HIS
 - (b) Tidal volume
 - (c) Chronotrophism
 - (d) Myasthenia Gravis
 - (e) DMD.
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AUGUST 2004

[KL 1550]

Sub. Code : 3062

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

(New Regulations)

Part II

**Paper I — PHYSICAL MEDICINE AND
REHABILITATION OF NEUROLOGICAL AND
CARDIO THORACIC DISORDERS**

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) Discuss the general theories of pain and
physiatrie interventional therapies for 'chronic pain
syndrome'.**

**(2) A 48 years old executive with history of
chronic smoking and on treatment for diabetes,
complains of pain left shoulder while climbing stairs.
How could he be rehabilitated?**

II. Short notes on : (10 × 5 = 50)

**(a) Functional 'Asia' classification of spinal cord
injury.**

**(b) Aerobic exercise programme for a healthy 50
years old lady.**

**(c) Physiatrie interventional management of
spasticity.**

(d) Bell's palsy

(e) Spontaneous activity in EMG.

**(f) Clinical predictors in stroke survivors
(2 weeks)**

(g) Neurologic issues in HIV disease.

(h) Computer related injuries (CRI)

(i) Functional electrical stimulation

(j) Recreation therapy.

SEPTEMBER 2006

[KO 1550]

Sub. Code 3062

DIPLOMA IN PHYSICAL MEDICINE AND
REHABILITATION EXAMINATION.

PHYSICAL MEDICINE AND REHABILITATION OF
NEUROLOGICAL AND CARDIO THORACIC
DISORDERS

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

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

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions : (2 × 15 = 30)

(1) Define stroke. What are the risk factors for stroke? Add a brief note on the pathophysiology of stroke. What are the predictors of functional outcome after stroke? How will you rehabilitate a 60 years old patient with left side hemiplegia?

(2) What are the goals of cardiac rehabilitation? What are the principles and effects of Aerobic training? How will you rehabilitate a 40 years old business executive who is admitted in the ICU with acute myocardial infarction?

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

- (a) Management of spasticity.
- (b) Apraxia.
- (c) Exercise tolerance testing.
- (d) UMN Bladder.
- (e) Diabetic foot.
- (f) Aphasia.
- (g) EMG – Bio feed back.
- (h) Incentive spirometry.
- (i) VO₂ max.
- (j) Diaphragmatic pacing.

[KQ 1556] MARCH 2007 Sub. Code : 3062

DIPLOMA IN PHYSICAL MEDICINE AND
REHABILITATION EXAMINATION.

PHYSICAL MEDICINE AND REHABILITATION OF
NEUROLOGICAL AND CARDIO THORACIC
DISORDERS

Common to

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

And

Paper II — (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) How will you rehabilitate a young mason
who has become a traumatic paraplegic at D_6 spin
level? (20)

(2) Describe the clinical features, investigations
and rehabilitation of a Duchenne muscular dystrophy
child. (15)

(3) What are the principles and effects of
Aerobic Training? Add a note on Vo_2 max. (15)

II. Short notes : (6 × 5 = 30)

(a) Apraxia

(b) Incentive spirometry

(c) Neonatal primitive reflexes

(d) Electromyography instrumentation

(e) Proprioceptive Neuromuscular Facilitation
Techniques

(f) Blink Reflex.

MARCH -2009

[KU 1556]

Sub. Code: 3069

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

**Paper II – PHYSICAL MEDICINE AND REHABILITATION OF
NEUROLOGICAL AND CARDIO THORACIC DISORDERS**

(Common to all Regulations)

Q.P. Code : 343069

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

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

1. Discuss the assessment of a 50 year old lady teacher with right middle cerebral artery infarct causing left hemiplegia. Define aphasia and describe the types of aphasia. Outline a rehabilitation plan for the above patient.
2. Describe the rehabilitation management of a 14 year old girl with severe, spastic total body involved cerebral palsy. Mention in brief the issues to be raised during counseling of the parents.

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

1. Treatable risk factors for coronary artery disease.
2. Dyslipidemia.
3. Outline of treatment in a newly diagnosed type 2 diabetic patient.
4. Functional electrical stimulation in stroke.
5. EMG findings in post polio syndrome.
6. Botulinum toxin in PMR practice.
7. Spurious diarrhoea in neurogenic bowel.
8. Heterotopic ossification.
9. SSRIs.
10. Role of clinical psychologist in the rehabilitation team.

APRIL 2011

[KY 1556]

Sub. Code: 3069

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF NEUROLOGICAL AND
CARDIO THORACIC DISORDERS**

Q.P. Code : 343069

**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. Describe the principles of rehabilitation after acute MI. Add a note on the precautions to be taken.	11	35	15
2. Classify Motor Neuron Disease. Mention the differential diagnosis and measures of rehabilitation in a patient with MND.	11	35	15

II. Write notes on :

1. Foot care in a diabetic patient.	4	10	7
2. TIA.	4	10	7
3. Post polio syndrome.	4	10	7
4. Rehabilitation of a patient with bronchiectasis.	4	10	7
5. Bladder management in a paraplegic patient.	4	10	7
6. FIM scoring.	4	10	7
7. Radiology in cervical spondylosis.	4	10	7
8. Electrophysiology in nerve injuries.	4	10	7
9. Learning disability.	4	10	7
10. IFT.	4	10	7

[LA 1556]

April 2012

Sub. Code: 3069

**DIPLOMA IN PHYSICAL MEDICINE AND REHABILITATION
EXAMINATION**

**PHYSICAL MEDICINE AND REHABILITATION OF NEUROLOGICAL AND
CARDIO THORACIC DISORDERS**

Q.P. Code : 343069

**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. Describe the brachial plexus and discuss how you would proceed to manage a patient with C8T1 root lesion.	16	35	15
2. Discuss the pathophysiology of neuropathic bladder and its management following T10 complete spinal cord injury.	16	35	15

II. Write notes on :

1. Rancho Los Amigo scale to assess cognitive functioning.	4	10	7
2. Significance of Creatinine Phospho Kinase in muscular dystrophy.	4	10	7
3. Pathology and clinical features of Wernikes aphasia.	4	10	7
4. Clinical interpretation of pulmonary function tests.	4	10	7
5. Common endocrine dysfunctions following brain injury.	4	10	7
6. Deformities and principles of correction of club foot.	4	10	7
7. Draw a diagram showing visual pathway and site of lesion for bitemporal hemianopia.	4	10	7
8. Mechanism of action of Botulinum toxin.	4	10	7
9. Management of pseudo dementia.	4	10	7
10. Role of robotics in rehabilitation.	4	10	7

(LC 1556)

APRIL 2013

Sub. Code: 3069

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

**PHYSICAL MEDICINE AND REHABILITATION OF NEUROLOGICAL
AND CARDIO THORACIC DISORDERS**

Q.P. Code: 343069

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss the evaluation and management of a 40 year old patient with right hemiplegia.
2. Discuss the late effects of polio? Add a note on postpolio syndrome.

II. Write notes on:

(10X7=70)

1. Ambulation stages in Duchenne muscular dystrophy.
2. Describe compound muscle action potentials
3. Clinical features of Dementia
4. Clinical features and management of Diabetic amyotrophy
5. Different types of aphasia
6. Explain the clinical features of locked in syndrome.
7. Explain postural drainage
8. Pneumonia in patients with dysphagia
9. Aerobic exercises in myocardial infarction
10. Explain the clinical features of a child with Spinal muscular atrophy

(LE 1556)

APRIL 2014

Sub. Code:3069

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

**PHYSICAL MEDICINE AND REHABILITATION OF NEUROLOGICAL
AND CARDIO THORACIC DISORDERS**

Q.P.Code: 343069

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Rehabilitation of a right MCA territory infarct patient with severe diabetic peripheral neuropathy.
2. Management of acute Guillain-Barre syndrome and rehabilitation of residual deficit.

II. Write notes on:

(10X7=70)

1. Post polio syndrome.
2. Ejection fraction.
3. Chronic empyema.
4. Orthostatic hypotension.
5. Vascular claudication.
6. Incentive spirometry.
7. Anticoagulants .
8. Polycythemia vera.
9. Diaphragmatic hernia.
10. Spinal dysraphism.

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

**PHYSICAL MEDICINE AND REHABILITATION OF NEUROLOGICAL
AND CARDIO THORACIC DISORDERS**

Q.P. Code: 343069

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Etiology, presentation and management of Parkinson's disease.
2. Various causes of peripheral neuropathy and electro diagnosis.

II. Write notes on:

(10 x 7 = 70)

1. Pulmonary function testing.
2. Tracheostomy.
3. MET (metabolic equivalents of task).
4. Bruce Protocol for exercise testing.
5. Motor neuron disease.
6. Exercise induced asthma.
7. Frontal lobe functions.
8. Types of cerebral palsy.
9. Botulinum toxin.
10. Hypertrophic cardiomyopathy.

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

**PHYSICAL MEDICINE AND REHABILITATION OF NEUROLOGICAL
AND CARDIO THORACIC DISORDERS**

Q.P.Code: 343069

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the rehabilitation of a 10 year old child with Spastic Diplegia.
2. Describe the clinical features and management of Central Cord Syndrome.

II. Write notes on:

(10 x 7 = 70)

1. Glasgow Coma Scale.
2. Trigeminal Neuralgia.
3. Bitemporal Hemianopia.
4. Bronchiectasis.
5. Obstructive Sleep Apnea.
6. Thalamic syndrome.
7. Pancoast Tumor.
8. Entrapment neuropathy of Ulnar nerve.
9. Investigations for Pulmonary embolism.
10. Bed side assessment of respiratory functions.

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

**PHYSICAL MEDICINE AND REHABILITATION OF NEUROLOGICAL
AND CARDIO THORACIC DISORDERS**

Q.P.Code: 343069

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the clinical features and management of lumbar disc disease.
2. Discuss the rehabilitation of a young male with C7 complete tetraplegia.

II. Write notes on:

(10 x 7 = 70)

1. Exercise stress test.
2. Drugs in dementia.
3. Vitamin B₁₂ deficiency.
4. Dystrophin.
5. Restrictive airway disease.
6. Vestibular rehabilitation.
7. Functional electrical stimulation.
8. Ejection fraction.
9. Incentive spirometry.
10. F-Wave.

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

**PHYSICAL MEDICINE AND REHABILITATION OF NEUROLOGICAL
AND CARDIO THORACIC DISORDERS**

Q.P.Code: 343069

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Rehabilitation of person with conus-cauda equina syndrome.
2. Cardiac rehabilitation in post myocardial infarction.

II. Write notes on:

(10 x 7 = 70)

1. Syringomyelia.
2. Cardiomyopathy.
3. Tetraplegic hand.
4. Locked in syndrome.
5. Transient ischemic attack.
6. Vocal cord paralysis.
7. Percutaneous endoscopic gastrostomy.
8. Lymphedema.
9. Tadalafil.
10. Atrial fibrillation.

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

**PHYSICAL MEDICINE AND REHABILITATION OF NEUROLOGICAL
AND CARDIO THORACIC DISORDERS**

Q.P. Code: 343069

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the pathophysiology and management of spasticity.
2. Discuss the Cardio-respiratory effects of physical exercises and the precautions for exercises in diabetic patients.

II. Write notes on:

(10 x 7 = 70)

1. Diaphragmatic breathing.
2. Dynamic posturography.
3. Environmental control devices.
4. Bronchopulmonary segments.
5. Motor neuron disease.
6. Klumpke's paralysis.
7. Polyneuropathy.
8. Role of CT scan in Cerebrovascular accident.
9. Pulmonary embolism.
10. Fertility following spinal cord injury.

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

**PHYSICAL MEDICINE AND REHABILITATION OF NEUROLOGICAL
AND CARDIO THORACIC DISORDERS**

Q.P. Code: 343069

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Define Motor neuron disease. Discuss diagnostic workup, including electro diagnosis, pharmacological management, and rehabilitation strategies in amyotrophic lateral sclerosis.
2. Define Metabolic syndrome. Discuss about the etiology, clinical feature, investigations and aerobic training of patient with metabolic syndrome.

II. Write notes on: **(10 x 7 = 70)**

1. Apraxia.
2. Orthostatic hypotension.
3. Autonomic dysreflexia.
4. Detrusor-sphincter dyssynergia.
5. Spinal dysraphism.
6. Lumbar canal stenosis.
7. Muscular dystrophy.
8. Reactive depression.
9. Modafinil.
10. Staging of pressure ulcers.

(LQ 1556)

AUGUST 2020
(MAY 2020 SESSION)

Sub. Code: 3069

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

**PHYSICAL MEDICINE AND REHABILITATION OF NEUROLOGICAL
AND CARDIO THORACIC DISORDERS**

Q.P. Code: 343069

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the clinical presentation, investigation, management of a patient with spinal cord injury at D6 Level.
2. Differentiate between chronic bronchitis and emphysema? Discuss clinical presentation of a patient with bronchiectasis and rehabilitation management

II. Write notes on:

(10 x 7 = 70)

1. Diabetic neuropathy
2. Falls in elderly
3. Constraint induced movement therapy
4. Carpal tunnel syndrome
5. Fibrillation potentials
6. Tizanidine
7. Deep vein thrombosis
8. Exercise stress test
9. TENS
10. Spinal muscular atrophy
