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BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION,
APRIL 1992.

Sixth Semester — New Regulations

Paper I — PHYSIOTHERAPY IN NEUROLOGY

Time: Three hours.

Maximum: 100 marks.

SECTION A — (3×20=60 marks)

Answer any THREE questions.

All questions carry equal marks.

A 60 year old housewife has Parkinson's disease. Identify the main problems this patient has to face in everyday life. Give a reasoned account of the physiotherapy that could be of benefit in alleviating these problems.

2. Write down the common associated problems in cerebral palsy. Discuss the effective sequence of activities to gain control and to improve the child's ability to move for a mild spastic child with good I.Q. and aged 4 years.

3. A 35 year old housewife sustained a fracture of the location of the spine at the level of C5 with damage to the spinal cord: State the aims of physiotherapy and describe how they are carried out.

(a) During the period of immobilisation.

(b) When mobilisation is allowed.

What advice should the physiotherapist give the patient prior to discharge?

4. Discuss the activities for reeducation of the affected upper limb and lower limb in a patient following stroke. Discuss the use of various Orthoses and gait aids for hemiplegics.

SECTION B — (5×8=40 marks)

Answer any FIVE questions.

All questions carry equal marks.

5. List the physiotherapeutic measures which may be used to reduce local muscle spasm of the calf muscles. Justify the use of these physiotherapy measures.

6. What problems may be encountered in the bathroom and the kitchen by a paraplegic housewife confined to a wheelchair?

Suggest aids and/or adaptations which may help to solve these problems.

7. Write down the specific problems in an hemiparesis and suggest how the physiotherapist can help to minimise these problems.

April-1992

8. Write/Discuss briefly the part played by various members of the rehabilitation team towards resettlement of an young housewife with a chronic disability.

9. Discuss briefly the management of a 15 year old girl with muscular dystrophy. What adaptations need to be considered at home for this patient.

10. Outline the physiological basis of muscle fatigue.

How may muscle fatigue be recognised in a patient?

What can a physiotherapist do to prevent excessive muscle fatigue ?

April-1994

[VM 484]

**Bachelor of Physiotherapy
Degree Examination**

**New Regulation
Semester VI**

PHYSIOTHERAPY IN NEUROLOGY

Time : 3 hours

Max. Marks : 100

Answer all Questions All questions carry equal marks

1. Describe the evaluation for physiotherapy in a patient with left sided hemispherical lesion, the problems and plan out your treatment program.
2. Discuss the various physiotherapy measures you will employ in rehabilitating a middle aged executive suffering from Parkinson's disease.
3. Discuss the physiotherapy management for a young female student who sustained a fracture dislocation at thoracic 10 level from day one till she goes back to college.
4. Write briefly on :
 - a) Spasticity and Rigidity
 - b) Grading of muscle power
 - c) Wheel chair management in Muscular dystrophy
 - d) Exercise for coordination

5. a) Muscle reeducation. When and how?
 - b) Splints used in peripheral nerve lesions
 - c) Respiratory complications in GBS and management.
 - d) Management of radial nerve lesion at the spiral groove.

November-1994

[ND 808]

**Bachelor of Physiotherapy
Degree Examination**

Sixth Semester
New Regulation and Transitory

Paper - P.T. in NEUROLOGY

Time : Three hours

Max marks 100

Answer all Questions

All questions carry equal marks

- 4 Discuss the P.T. Management of pain, giving physiological principles.
- 5 Write short notes on any TWO
 - a) Exercise for Incoordination
 - b) Sports for paraplegics
 - c) Neurogenic bladder
- 1 Discuss the role of Physical Therapy in a young patient with head injury
- 2 Give in brief various conditions leading to anterior horn cell lesion. Describe the physical therapy management in any one.
- 3 Discuss the Neuro physiological principles used for the treatment of a brain damaged child.

[MB 924]

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION.

(New Regulations and Transitory)

Sixth Semester

Paper I —P.T. IN NEUROLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. A 60 year old man develops right sided hemiplegia. Describe physio-therapy in detail with more emphasis on Gait-training. (20)
2. What are the causes of Paraplegia? A patient has developed Quadriplegia, having lesion C₇. Describe physio-therapy in all stages briefly. (20)
3. Compare and contrast Guillian Bare's syndrome with Poliomyelitis clinically. Describe physio-therapy in one of them. (20)
4. Write notes on :
 - (a) Frenkel's exercises. (6)
 - (b) Splints in Peripheral Nerve lesions. (8)
 - (c) Tabes Dorsalis. (6)

[MB 924]

5. Write notes on :

- (a) Parkinsonism. (6)
 - (b) Reflexes in cerebral palsy. (8)
 - (c) Proapsed Intervertebral Disc. (P.I.D.) (6)
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[PK 913]

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION.

Sixth Semester

(New/Revised Regulations and Transitory)

Paper I — P.T. IN NEUROLOGY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A — (50 marks)

1. Write an essay on any ONE of the following :

(1 × 14 = 14 marks)

(a) Give a brief summary of causes for cerebral palsy.

Discuss briefly the management of a 4 year old cerebral palsy child (mild spastic with good I.Q.)

(b) Give a brief classification of myopathies.

Discuss the management of a 10 years old boy with Duchenne muscular dystrophy, who is now in the ambulatory phase.

2. Write brief answers on any TWO of the following :

(2 × 8 = 16 marks)

(a) Write briefly the physiotherapy management of a 4 year old polio child during the recovery stage.

(b) Write briefly about the reeducation and rehabilitation of a patient with foot drop.

(c) Discuss the secondary complications seen in patients with spinal cord lesion.

3. Write short notes on any FIVE of the following :

(5 × 4 = 20 marks)

(a) Integration of therapies in stroke care.

(b) Rigidity.

[PK 913]

- (c) Mobility aids.
- (d) Pressure sores.
- (e) Neurogenic bladder.
- (f) Tables dorsalis.

SECTION B — (50 marks)

4. Write an essay on any ONE of the following :

(1 × 14 = 14 marks)

(a) A 50 year old man sustains a lesion of the right internal capsule resulting in a left hemiplegia.

Describe a progressive physiotherapy programme for this patient.

(b) A young bricklayer sustains an injury to the radial nerve of right arm and is referred for treatment three weeks later when an axonotmesis is diagnosed.

Give a reasoned account of physiotherapy for this patient from the time of referral to full recovery.

5. Write brief answers on any TWO of the following :

(2 × 8 = 16 marks)

(a) Give a brief physiotherapy assessment of a patient with peripheral nerve injury.

(b) Outline the physiological basis of muscle fatigue. How may muscle fatigue be recognised in a patient? What can a physiotherapist do to prevent excessive muscle fatigue?

(c) Write a brief account of the following institutions

- (i) An acute care unit in a general hospital.
- (ii) Rehabilitation centre.

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6. Write short notes on any FIVE of the following .

(5 × 4 = 20 marks)

- (a) Lively splint.
- (b) Deep vein thrombosis.
- (c) Spasticity.
- (d) Calcification of soft tissue.
- (e) Sensory disturbances in stroke.
- (f) Ataxia.

[MS 913]

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Sixth Semester

(New/Revised Regulations and Transitory)

Paper I — P.T. IN NEUROLOGY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in
separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20 marks)
 - (a) Principles of treatment by physiotherapy in a hemiplegic patient.
 - (b) Physiotherapeutic management of a paraplegic patient with lesion at T₁₀.
2. Write short notes on any SIX : (6 × 5 = 30 marks)
 - (a) Brachial neuralgia
 - (b) Myasthenia gravis
 - (c) Disuse atrophy
 - (d) Splintage in cerebral palsy
 - (e) Bell's palsy
 - (f) Disability grading in Parkinsonism
 - (g) Muscle spasm
 - (h) High stepping gait.

[MS 913]

SECTION B

3. Write an essay on any ONE of the following : (20 marks)
 - (a) Physiotherapeutic management of shoulder pain and shoulder hand syndrome.
 - (b) Physiotherapeutic management of poliomyelitis in convalescent and residual stages.
4. Write short notes on any SIX : (6 × 5 = 30 marks)
 - (a) Wheel chair
 - (b) Assessment of respiratory function in Spinal cord lesion
 - (c) Hip flexion contracture
 - (d) Radial nerve palsy
 - (e) Milestones of development
 - (f) Frenkel's exercises
 - (g) Cauda equina lesion
 - (h) Lateral popliteal nerve injury.

[SM 913]

October-1998

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Sixth Semester

(New/Revised Regulations and Transitory)

Paper I — P.T. IN NEUROLOGY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20)

- (a) Physiotherapy management of a cerebral palsy child.
- (b) Physiotherapy management of Brachial Plexus injury.

2. Write short notes on any SIX : (6 × 5 = 30)

- (a) Neuro-Physiology of Spasticity.
- (b) Physiology of Nerve conduction.
- (c) Grading of Muscle power.
- (d) Normal Gait Cycle.
- (e) Crutch walking.
- (f) Cock up splint.
- (g) Technique of Ice Therapy to control Spasticity.
- (h) Measurement of Thigh girth.

SECTION B

3. Write an essay on any ONE of the following : (20)

(a) Physiotherapy management of a Radial Nerve injured patient following intramuscular injection in upper arm.

(b) Use of splints and braces in upper motor and lower motor neurone lesions.

4. Write short notes on any SIX : (6 × 5 = 30)

- (a) Sensory Examination in Peripheral Nerve lesions.
- (b) Types of Peripheral Nerve injuries.
- (c) Bobath's technique.
- (d) Gait training.
- (e) Child motor development.
- (f) Ulnar nerve injury.
- (g) Foot drop gait.
- (h) Neuralgia and Neuritis.

April-1999

[SG 913]

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Sixth Semester

(New/Revised Regulations and Transitory)

Paper I — P.T. IN NEUROLOGY

Time : Three hours *APRIL '99* Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20)
 - (a) Write down the causes for spinal cord lesions and discuss in detail the treatment of regional injuries in the spine leading to spinal cord lesions.
 - (b) Write down the symptoms of motor neuron diseases. Discuss the physiotherapy management for a 40 year old clerk with motor neuron diseases involving all the four limbs.
2. Write short notes on any SIX : (6 × 5 = 30)
 - (a) Classification and causes for peripheral nerve injuries.
 - (b) Wrist drop.
 - (c) Causalgia.
 - (d) Brachial plexus lesion.
 - (e) Causes for cerebral palsy.
 - (f) Clinical features in Parkinson patient.
 - (g) Dysmetria.
 - (h) Poly-neuropathic syndrome.

SECTION B

3. Write an essay on any ONE of the following : (20)
 - (a) Discuss the difficulties associated in hemiplegia and your approach towards these difficulties.
 - (b) Give a summary of causes for cerebral palsy; outline the management of a cerebral palsy child.
4. Write short notes on any SIX : (6 × 5 = 30)
 - (a) Powered mobility aids.
 - (b) negative signs in cerebral palsy child.
 - (c) Lively splints.
 - (d) HORNER'S Syndrome.
 - (e) Spasticity and Rigidity.
 - (f) Neuroma pain.
 - (g) Genetic counselling.
 - (h) Incontinence.

April-2000

[KB 921]

Sub. Code : 5175

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Sixth Semester

(New Regulations/Revised and Transitory)

Paper I — P.T. IN NEUROLOGY

Time : Three hours Maximum : 100 marks

Answer Section A and B in separate answer books

SECTION A — (50 marks)

Write an essay on any ONE of the following (20)

(a) Describe positioning the hemiplegic in supine position, onto the affected side and on the unaffected sides in the early stage. Describe management of complications/difficulties/problems in hemiplegics during the chronic/late stage.

(b) Describe the treatment of an young adult with high level spinal cord lesion :

During the stage when weight bearing through the spine is not permitted

During the stage when weight bearing through the spine is permitted.

2. Write short notes on any SIX of the following :
(6 × 5 = 30)

- (a) Wheelchair transfers training for paraplegics
- (b) Training of activities in the standing position for hemiplegics
- (c) Assess developmental milestones from birth to five years in a child.
- (d) Management of chronic pain in neurological conditions.
- (e) Treatment of altered tone
Hypertonicity and hypotonicity.
- (f) Sensory reeducation for patients presenting :
Hypersensitivity, Hyposensitivity and anaesthesia.
- (g) Treatments to improve function.
- (h) Use of ambulatory aids in neurological conditions.

SECTION B — (50 marks)

3. Write an essay on any ONE of the following : (20)

- (a) Describe treatment of motor dysfunction in a 4 year old cerebral palsied child, (mild spastic + good I.Q.).

(b) Describe the common splints used in peripheral nerve lesions (radial nerve lesion, ulnar nerve lesion, combined ulnar and median nerve lesion, sciatic nerve lesion, lateral popliteal nerve lesion — static, dynamic, and functional; isolating muscle contraction, specific muscle strengthening.

4. Write short notes on any SIX of the following :
(6 × 5 = 30)

- (a) Activities of daily living
- (b) Principles of neurological assessment
- (c) Structure and function of extra pyramidal system
- (d) Neurological assessment of higher functions
- (e) Grading of muscle power
- (f) Organisation and function of cerebellum
- (g) Assessment of range of movement, balance and coordination
- (h) Assessment of normal and abnormal gaits.

[KC 921]

Sub. Code : 5176

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Sixth Semester

(New Regulations/Revised and Transitory)

Paper I — P.T. IN NEUROLOGY

Time : Three hours Maximum : 100 marks

Answer Section A and B in separate answer books.

SECTION A — (50 marks)

1. Write an essay on any ONE of the following : (20)
 - (a) Give an account of assessment and treatment programme for brachial plexus injury.
 - (b) Management of a 22 year old college student with C₇-C₈ level injury of spinal cord. Discuss rehabilitation programme for this patient.
2. Write short notes on any SIX of the following :
(6 × 5 = 30)
 - (a) Pressure bandaging
 - (b) Ape thumb deformity
 - (c) Muscle reeducation after transfer

- (d) Motor relearning programme
- (e) Orthotic aids commonly used in Anterior polio myelitis
- (f) Assessment of superficial and deep reflexes
- (g) Alpha motor Neuron
- (h) High steppage gait.

SECTION B — (50 marks)

3. Write an essay on any ONE of the following : (20)

(a) Write down the treatment programme for a patient of 38 year old right hemiplegic with chest complications.

(b) Describe assessment and treatment plan for a anterior polio patient :

- (i) When he is in acute stage
- (ii) When he is in recover stage
- (iii) When he is in residual stage.

4. Write short notes on any SIX of the following :
(6 × 5 = 30)

- (a) Treatment modalities in pain relief
- (b) Use of ice in reducing spasticity
- (c) Stereognosis

(d) Strength duration curve

(e) Ataxia and Chorea.

(f) Management of chest complications in muscular dystrophy.

(g) Postural correction in parkinsonism

(h) Use of reflex activity to improve motor function.