



Fourth B.P.T.H. (2012) Examination, Summer
(Phase - III : All Other Remaining UG/PG Courses) - 2020.

NEURO PHYSIOTHERAPY

Total Duration : 3 Hours

Total Marks : 80

SECTION - A & SECTION - B

- Instructions :*
- 1) Use blue/black ball point pen only.
 - 2) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) All questions are compulsory.
 - 4) The number to the right indicates full marks.
 - 5) Draw diagrams wherever necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) Use a common answer book for all sections.

SECTION - A SAQ(50 Marks)

1. Short answer question (any five out of six) : [5 × 3 = 15]
- a) Asymmetric tonic neck reflex.
 - b) Glasgow Coma Scale.
 - c) Any 3 differences between Lower motor and lower motor Neuron Lesion.
 - d) Pusher's Syndrome.
 - e) Define and classify Muscle Tone:
 - f) Clinical features of Hydrocephalus.

2. Short answer questions (any five out of six) :

- a) Describe the signs, symptoms and Physiotherapy management of Trigeminal Neuralgia.
- b) With a neat labelled diagram , describe the Circle of Willis.
- c) Describe stages of Multiple Sclerosis and PT management for any one stage.
- d) PT management of Down's Syndrome.
- e) PT management in acute care of traumatic head/brain injuries.
- f) PT management for BPPV.

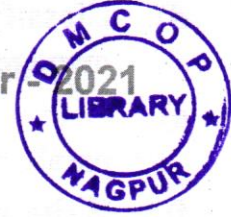
SECTION - B LAQ(30 Marks)

3. Long answer question (any one out of two) :

[1 × 15 = 15]

- a) A 30 years old female had history of fever 2 weeks back following which she complained of progressive weakness in all 4 limbs. Presently she also has breathlessness on exertion. She was admitted in the hospital for a week.
- i) ICF in details [5]
- ii) Detailed Physiotherapy Management [10]
- b) A 3 year old female child was brought to the PT OPD with complains of difficulty in sitting up, standing and walking. On examination she has increased tone in her lower limbs and walk with a crossing pattern. Her mother reported that the child was born in the 7th month and had a delayed cry.
- i) ICF [5]
- ii) Detailed PT management [10]

Fourth B.P.Th. (2012) Examination, Summer
NEURO PHYSIOTHERAPY



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SECTION - A & SECTION-B

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SECTION-A SAQ (50 Marks)

1. Short answer question (**any five** out of six) : [5 × 3 = 15]
 - a) What is Kernigs and Brudzinski sign.
 - b) Enlist the types of Motor neuron disease.
 - c) Give any one classification of nerve injuries.
 - d) Enlist features of autonomic dysreflexia.
 - e) Write the stages of motor learning.
 - f) Asymmetrical Tonic Neck Reflex.

2. Short answer question (**any five** out of six) : [5 × 7 = 35]
 - a) Describe the physiotherapy management of Reflex sympathetic dystrophy.
 - b) Define motor control. Enumerate the theories of motor control. Explain any 2 in detail.
 - c) Discuss gross motor and fine motor milestones up to age 3 years.

- d) Classify neurological bladder. Write assessment and physiotherapy management of any 1 in detail.
- e) Discuss the clinical features and physiotherapy management of Erb's paralysis.
- f) Write down the characteristics and physiotherapy management of hemiplegic gait.

SECTION-B LAQ (30 Marks)

3. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) A 40 year old female known case of diabetes and hypertension is diagnosed with Left ACA infarct 2 months back. At present she has grade 2 spasticity in her right upper and lower limbs. She stays on the second floor without lift facility. She is a housewife and has a family of 3 people.
- i) Write ICF with clinical reasoning. [5]
- ii) Describe short term and long term Physiotherapy Interventions in details. [10]
- b) Discuss ICF with clinical reasoning and detailed physiotherapy management for a 30 year old female patient who is a case of acute transverse myelitis at the level of T10 vertebrae. [5+10]
4. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Write ICF with clinical reasoning of a 5 year old athetoid Cerebral palsy girl, she is able to maintain independent sitting but is unable to stand. She attends regular school. Formulate the short term and long term goals of management. [5+5+5=15]
- b) Discuss ICF with clinical reasoning for a 65 year old retired male clerk suffering from Parkinson's disease for last 3 years. He currently is on medications. He is graded 3 on Yahr scale. Write short term and long term goals of physiotherapy management in detail. [5+5+5=15]

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Fourth B.P.TH. (2012) Examination, Phase - II Summer - 2022
NEURO PHYSIOTHERAPY

Total Duration : 3 Hours

Total Marks : 80

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SECTION - "A"SAQ (50 Marks)

1. Short answer question (**any five** out of six) : [5 × 3 = 15]
 - a) Define Extrinsic & Intrinsic Feedback.
 - b) Explain the Sunderland's classification of nerve injuries.
 - c) Explain Autonomic Dysreflexia.
 - d) State any 3 principles of the Rood's Approach.
 - e) What is Apraxia? Enumerate its types.
 - f) Enumerate 3 clinical features of Multiple Sclerosis.

2. Short answer question (**any five** out of six) : [5 × 7 = 35]
 - a) Describe in detail physiotherapy management for a Flaccid Upper extremity in a stroke patient.
 - b) Describe Spastic Hemiplegic Gait. Describe physiotherapy management for the same.
 - c) Describe the Physiotherapy management of the Carpal Tunnel Syndrome.
 - d) Describe the physiotherapy management of Bradykinesia and rigidity in Parkinson's disease.
 - e) Write a note on vestibular rehabilitation.
 - f) Describe Various Foot orthoses used for Cerebral Palsy children.

SECTION - "B" LAQ (30 Marks)

3. Long answer question (any one out of two) : [1 × 15 = 15]
- a) A 42 year old photographer had RTA resulting in fracture of T9-T10 vertebrae with complete Spinal cord injury. A decompression-stabilization surgery was done 1 month back. He can sit without support, and can transfer himself in wheel chair. He has a spastic bladder. His financial condition is good, his studio is in his own home on first floor.
- i) Describe his impairments with clinical reasoning [7]
- ii) Describe the PT management for expected type and mode of Ambulation. [8]
- b) A 68 year old lady complains of tremors in fingers, fall while turning, slowness of movement since last 2 years, recently she also has freezing episode while speaking and walking. She is a retired teacher and continues taking classes for underprivileged slum children. She is been on medication for the same. She doesn't have any other co-morbidity.
- i) Explain the short term and long term goals. [4]
- ii) Explain fall prevention strategies. [4]
- iii) Write the PT management in details. [7]
4. Long answer question (any one out of two) : [1 × 15 = 15]
- a) A 2 year old hypotonic Cerebral Palsy girl comes for rehabilitation. She can roll on either side and come to sitting with moderate support. Her parents are both uneducated and from low socio economic strata.
- i) Describe the impairments with clinical reasoning. [7]
- ii) Describe short and long term Physiotherapy management with emphasis on trunk control and ambulation. [8]
- b) A 21 year old man had a fall from tree on out stretched had, causing traction injury 3 weeks back. Since then he has difficulty in, making a fist, straightening his elbow and move his thumb. He has loss of sensation on medial side of forearm and arm. On examination the muscle power is less than grade 2.
- i) Identify which part of brachial plexus is involved. [2]
- ii) Explain the short term and long term goals. [6]
- iii) Describe the PT management with emphasis on orthosis prescription. [7]



Fourth B.P.T.H. (2012) Examination, Summer - 2023 (Phase - III)
NEURO PHYSIOTHERAPY



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SECTION - "A" SAQ (50 Marks)

1. Short answer question (any five out of six) :

[5 × 3 = 15]

- a) Classification of Nerve Injuries.
- b) Enumerate any 3 methods to reduce muscle tone.
- c) Clinical features of Brown Sequard Syndrome.
- d) Types of pathological bladders.
- e) Clinical features of Horner's Syndrome.
- f) What is Broca's and Wernicke's aphasia?

2. Short answer question (any five out of six) :

[5 × 7 = 35]

- a) Classify diabetic neuropathy. Write the physiotherapy management for diabetic foot.
- b) Discuss the gross motor milestones till 5 years of age.
- c) Write down the physical traits and neurological impairments seen in Down's Syndrome.
- d) Define motor control. Enumerate the theories of motor control. Explain any 2 in detail.
- e) Classify Motor Neuron disease along with their clinical features.
- f) What is apraxia? Explain its various types with suitable examples.

SECTION - "B" LAQ (30 Marks)

3. Long answer question (any one out of two) : [1 × 15 = 15]
- a) Discuss ICF and physiotherapy management for a 23 year old male who had a fall one month back while hanging out from a train and sustained a fracture of right clavicle. He was managed conservatively. Since then patient has inability to move his right upper limb and has sensory affection. [7 + 8 = 15]
- b) Discuss ICF and Physiotherapy Management for a 35 year old female who is recently diagnosed with a case of Multiple Sclerosis. Presently she suffers from visual disturbances and complains of loss of balance. She is a medical representative and her job requires a lot of travelling. [7 + 8 = 15]
4. Long answer question (any one out of two) : [1 × 15 = 15]
- a) Discuss ICF with short term and long term goals of physiotherapy management for a 45 year old teacher suffering from head injury leading fracture of Rt. Frontal bone and subdural hematoma 15 days back. He has a GCS score of 12 and is hospitalized. [5 + 5 + 5 = 15]
- b) Write down ICF with clinical reasoning for a case of Lt. MCA Infarct diagnosed 3 months back. Patient is 55 year old male and he is an auto driver by profession and a chronic diabetic. Plan short and long term goals with treatment strategies for the same. Patient walks independently with the help of a stick but has difficulty carrying out activities of daily living with his upper limb. [5 + 7 + 3 = 15]



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Fourth B.P.TH. (2012) Examination, Summer - 2025 Phase - II
NEURO PHYSIOTHERAPY



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Total Marks : 80

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 - 7) **Use a common answerbook for all sections.**

SECTION - A (SAQ) (50 Marks)

1. Short Answer Questions (Solve any 5 out of 6) : [5×3=15]
 - a) Give classification of nerve injuries.
 - b) Explain uses and principle of Dynamic cock up splint.
 - c) Define Aphasia. Enumerate its types.
 - d) Enumerate signs of increased Intra cranial pressure.
 - e) Enumerate types of Spina Bifida.
 - f) Cardinal features of Parkinson's Disease.

2. Short Answer Questions (Solve any 5 out of 6) : [5×7=35]
 - a) Discuss the clinical features and physiotherapy management of Klumpke's paralysis.
 - b) Write the role of feedback in neurological rehabilitation. Describe different types of feedback. Explain any one in detail.
 - c) Write a note on Hemiplegic gait thorough all phases of recovery.
 - d) Write down the clinical features and physiotherapy management of Duchhen's Muscular Dystrophy.

- e) What is post polio residual paralysis. Describe the clinical features and physiotherapy management of PPRP complications.
- f) What is Alcoholic Neuropathy? Describe the physiotherapy management of the same.

SECTION - B (LAQ) (30 Marks)

3. Long Answer Questions (Solve any 1 out of 2) : [1×15=15]

a) Write down ICF with clinical reasoning for a 45 year old male having complains of abdominal pain and viral fever followed by weakness of upper limb and lower limb since 10 days. Presently the patient has also started feeling breathing difficulties. The patient is admitted in the ICU and diagnosed as Gullian Barrey Syndrome. Write the short term and long term goals with Physiotherapy management. [5+7+3]

b) A 25 year old male, a manual labourer, is admitted to the hospital having complaint of inability to move both lower limbs. He had a fall from second floor of the building and diagnosed with T10 vertebral fracture a month ago.

i) Discuss the ICF with clinical reasoning. [5]

ii) Discuss the short term and long term goals with physiotherapy management. [10]

4. Long Answer Questions (Solve any 1 out of 2) : [1×15=15]

a) A 7 years old male child have a difficulty in walking and doing ADLS with his right hand. He had a history of delayed milestones development. He is known case of spastic hemiplegic cerebral palsy. Mention ICF and physiotherapy management in detail.

b) Write ICF and physiotherapy management with long and short term goals for 29 year old unmarried female executive working in a multinational company diagnosed as a case of multiple sclerosis 2 years back. She is suffering from a second relapse. She was discharged from the hospital 1 week back. She is moderately functionally dependent in transfers and hygiene. [7+8]

