

**Fourth B.P.Th. (2012) Examination, Summer 2018**  
**NEURO PHYSIOTHERAPY**

Total Duration : Section A + B = 3 Hours

Total Marks : 80

**SECTION – A and 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 answerbook for all Sections.**

**SECTION – A SAQ (50 Marks)**

1. Short answer question (any five out of six) : (5×3=15)
  - a) Explain 3 Motor strategies of Balance.
  - b) Explain the components of flexion synergy in spastic upper limb.
  - c) Enumerate any 3 prenatal causes of cerebral palsy.
  - d) Explain the Diagnostic criteria of Motor Neuron Disease.
  - e) Explain 3 principles of Motor Relearning Approach.
  - f) Briefly explain Changes in Brain Parenchyma with Neuroplasticity.

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(5×7=35)

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

- a) Explain different carrying positions for Cerebral Palsy children with rationale.
- b) Describe Physiotherapy management of Radial Nerve injury.
- c) Write a note on Physiotherapy management for Acute stage of Traumatic Brain injury.
- d) Write a note on the Physiotherapy management of spastic gait in a hemiplegic patient.
- e) Explain Physiotherapy management for ambulation training of a L3 vertebra fracture patient.
- f) Explain in detail the complications seen in Duchenes Muscular Dystrophy.

**SECTION – B LAQ (30 Marks)**

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

(1×15=15)

a) A 54 year old bank manager suffered right MCA Cerebrovascular accident 2 weeks back, MRI shows fresh infarct in right internal capsule and corona radiate. He cannot move his Left upperlimb. On examination, he has increased tone in left shoulder flexors, external rotators, hip extensors, adductors, plantar flexors. Voluntary control is zero in upper limb and 2 in lower limb, he has left Facial palsy, he can stand with support. He has history of smoking since 20 years. He is hypertensive since 4 years controlled with medication.

i) Explain lifestyle modifications for this patient.

2

ii) Write short term and long term goals for PT management.

5

iii) Write in detail PT management for the impairments:

8

b) A 44 year old clerk had GI tract infection 3 weeks back, since 2 days he is complaining of weakness in all 4 limbs proximal more than distal, he has sever difficulty in grooming, bathing, eating and walking activities, his sensation are normal, his electrodiagnosis studies show delay in F-wave.

i) Discuss the diagnosis with rationale.

2

ii) Write short term and long term goals for PT management.

5

iii) Write in detail PT management for the impairments.

8

17-35)



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

(1×15=15)

a) A 23 year old engineering student is diagnosed with Multiple sclerosis since 3 years, he has relapsing-remitting type of the disease. Currently he is walking with support, can manage using public transport, he is attending college regularly, has difficulty in fine motor activities like grooming, writing, using spoon etc.

i) Write Short term and long term goals.

6

ii) Write in detail the PT management according to his Impairments.

9

b) A 4 year old boy has difficulty in standing and walking, he shows scissoring pattern, with severe spasticity in adductors and plantar flexors bilaterally, his upper limb motor examination is normal, his intelligence is normal, he had pre-term birth, he has no sensory impairment. He wants to go to school.

i) Write short term and long term goals.

6

ii) Write in detail the PT management with emphasis on gait training.

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