

PRACTICE SET

End Semester Examination, Dec 2025

Program: BPT

Semester: V

Subject: Neurology

Subject Code: 23A502

COURSE OUTCOME	Description
CO1	Explain the neuroanatomy and physiology.
CO2	Understand the basic neurological conditions including its etiology, classification, pathology, clinical features, relevant investigations and complications.
CO3	Demonstrate the knowledge of medical and surgical management of various neurological conditions.
CO4	Summarize the assessment and evaluative procedures for a neurological patient.

Section A

(20x 5= 100)

1. Write down about Pyramidal tract.[CO1] (Unit 1)(Remember LOT)
2. Write a short note on the assessment scale used for spasticity. [CO4](Unit 3)(Remember LOT)
3. Explain about the nervous control of bladder.[CO1](Unit 1)(Understand LOT)
4. Describe the stages of spinal cord injury.[CO2] (Unit 3)(Understand LOT)

5. Discuss about Indication and Contra indication of Neurosurgery.[CO3] (Unit 2)
(Remember LOT)
6. List the components of the brachial plexus. [CO1](Unit 1)(Remember LOT)
7. Write in detail about the assessment of consciousness. [CO4] (Unit 2) (Understand LOT)
8. Write a short note on shunting. [CO3] (Unit 3)(Remember LOT)
9. Explain BE FAST .[CO2] (Unit 3)(Apply LOT)
10. Explain GCS in detail. [CO4] (Unit 2) (Remember LOT)
11. Define posture and explain the neurophysiological control of posture. [CO1] (Unit 1)
(Understand LOT)
12. Describe the features of dementia. [CO2](Unit 5)(Understand LOT)
13. Write a short note on various disc lesions.[CO2] (Unit 4) (Remember LOT)
14. Explain the management of cerebral palsy in brief. [CO3] (Unit 3) (Understand LOT)
15. Explain the criteria to assess the severity of traumatic brain injury.[CO4] (Unit 3)
(Remember LOT)
16. List the clinical features of cerebellar lesion.[CO1](Unit 1) (Remember LOT)
17. Write the general principles of management of Motor neuron disease.[CO3] (Unit 6)
(Remember LOT)
18. Explain Sunderland's classification of peripheral nerve injuries.[CO2](Unit 5) (Understand
LOT)
19. List the clinical features of Guillain–Barré Syndrome. [CO2] (Unit 4) (Remember LOT)
20. Discuss about the clinical features of Parkinson's disease.[CO2](Unit 5) (Remember LOT)

Section B

(15x 10= 150)

21. Explain about circle of willis. [CO1] (Unit 1) (Remember LOT)
22. Write down the assessment for Cranial nerve II and III. [CO4](Unit 6)(Apply LOT)
23. Analyze how Brown-Séguard syndrome leads to contralateral loss of pain and temperature sensation, illustrating your answer with a labeled diagram that demonstrates the anatomical spinal cord pathways involved. [CO2] (Unit 3) (Analyze HOT)
24. Write down the appropriate medical and surgical management for a child with delayed walking and abnormal gait pattern. Birth history suggests premature birth with low birth

weight. On examination, the child walks on tiptoes with a scissoring gait, has increased tone in lower limbs more than upper limbs, exaggerated deep tendon reflexes, and bilateral Babinski sign positive. Also add a note on the probable etiology for the above condition.[CO3] (Unit 3) (Analyze HOT)

25. Write down the detailed assessment procedure for sensory examination in a neurological patient. [CO4] (Unit 2) (Remember LOT)
26. Compare and contrast the clinical signs and symptoms observed in the diagnosis of Duchenne Muscular Dystrophy (DMD) and Poliomyelitis. [CO2] (Unit 5) (Apply LOT)
27. Elaborate on the pathophysiology and the clinical features of Parkinson's disease.[CO2] (Unit 5) (Remember LOT)
28. Explain the types, clinical features and complications of Spina bifida.[CO2] (Unit 3) (Remember LOT)
29. Explain in detail about the cognitive assessment in a neurological patient. [CO4] (Unit 2) (Remember LOT)
30. Elaborate on Generalized seizures. [CO1] (Unit 6) (Remember LOT)
31. Analyze the role of infection in the pathology of meningitis and tuberculosis of the CNS. [CO2] (Unit 5)(AnalyzeHOT)
32. Elaborate on the management of motor neuron disease.[CO3] (Unit 6) (Understand LOT)
33. Explain how will you assess the severity of a head injury patient?[CO4] (Unit 3) (Apply LOT)
34. Write in detail about the management of cerebrovascular accidents. [CO3] (Unit 3) (Apply LOT)
35. Write down the probable diagnosis and its clinical features if a patient comes to you with complaints of incomplete closure of his left eyelid and you observe deviation of his angle of mouth towards right. [CO2] (Unit 6) (Analyze HOT)

Section C

(10x 20= 200)

36. Evaluate the neuroanatomy of the brainstem and its clinical relevance in neurological disorders. [CO1] (Unit 1) (Evaluate HOT)

37. Write down the neurological assessment for a 30-year-old female with complaints of drooping of both eyelids that worsens as the day progresses and improves with rest. She also experiences difficulty in chewing food during meals and her voice becomes nasal after prolonged speaking. On examination, you notice bilateral ptosis that increases after repeated upward gaze.[CO4] (Unit 6) (Evaluate HOT)
38. Write in detail about the assessment of various systems involved in maintaining static and dynamic equilibrium in an individual. [CO4] (Unit 1) (Evaluate HOT)
39. A 35-year-old male presents with rapidly progressive weakness of both lower limbs that started 3 days ago and is now affecting his upper limbs. He had a respiratory tract infection 2 weeks prior. On examination, deep tendon reflexes are absent bilaterally, and he has difficulty standing without support. His sensory examination shows mild glove-and-stockings pattern sensory loss.[CO4] (Unit 4) (Evaluate HOT)
40. Analyse how different mechanisms of spinal trauma (e.g. flexion, extension, vascular compromise) produce distinct spinal cord syndromes through specific pathophysiological pathways and add a note on the clinical features seen..[CO2] (Unit 2) (Analyse HOT).
41. A 60 year old individual presents with memory loss and language difficulty. Analyse how you would assess higher mental functions in this patient and interpret the findings to localize the involved cortical areas. [CO4] (Unit 2) (Analyse HOT)
42. Create a detailed comparative analysis of UMN and LMN disorders on the basis of the clinical features and associated pathophysiology. [CO2](Unit 1) (Create HOT)
43. A patient presents with complaints of ascending sensory loss in a pattern of glove and stocking pattern, symmetrical ascending weakness. Write down the probable diagnosis and assessment for the same.[CO4] (Unit 4) (Evaluate HOT)
44. Write down the probable diagnosis, etiology, pathophysiology and clinical features for a patient if she comes to you with complaints of pain over the right half of her face while eating and brushing, and patient winces and does not let the examiner touch her face. [CO2] (Unit 6) (Analyze HOT)
45. A child is observed climbing his/her body to stand up independently after sitting on the ground, with a history of frequent falls while running. Evaluate the probable diagnosis and comprehensively explain its etiology, pathophysiology, clinical features, diagnostic process, and management strategies. [CO2] (Unit 5) (Evaluate HOT)

Summary Sheet:

CO Wise

Course Outcome	Q.No.	Marks
CO1	1, 3, 6, 11, 16, 21, 30, 36	65
CO2	4, 9, 12, 13, 18, 19, 20, 23, 26, 27, 28, 31,35, 40, 42, 44,45	175
CO3	5, 8, 14, 17, 24, 32, 34	50
CO4	2, 7, 10, 15, 22, 25, 29, 33, 37, 38,39, 41, 43	160
Total		450

UNIT Wise

UNIT	Q.No.	Marks
1	1, 3, 6, 11, 16, 21, 36, 38, 42	95
2	5, 7, 10, 25, 29, 40, 41	75
3	2, 4, 8, 9, 14, 15, 23, 24, 28, 33, 34	80
4	13, 19, 39, 43	50
5	12, 18, 20, 26, 27, 31, 45	65
6	17, 22, 30, 32, 35, 37, 44	85
Total		450

BLT Wise

BLT	Q.No.	Marks
LOT	1, 2, 3, 4, 5, 6, 7, 8, 9,10,11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,22, 25, 26, 27, 28, 29, 30, 32, 33,34	160
HOT	23,24,31,35,36,37,38,39,40,41,42,43,44,45	290
Total		450

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Disclaimer: - This is a Practice Set. The Question in End term examination will differ from the Practice set. This Practice set is meant for practice only.