



PRACTICE SET

End Semester Examination, Dec 2025

Program: Bachelor of Physiotherapy (BPT)

Semester: VII

Course: Physiotherapy in Neurological Conditions - I

Course Code: 23A702

CO 1: Explain the neuroanatomy and physiology.

CO 2: Correlate the neuroanatomy with various UMN and LMN disorders.

CO 3: Apply the principles of various neurological approaches for planning the management of a neurological patient.

CO 4: Explore the assessment and neurological techniques for the management of spinal cord injury patients.

CO 5: Classify various speech disorders

Section A

(18 x 5= 90)

1. Explain the examination of reflex in detail along with its gradings. [CO4] [Unit 1] [Remember LOT]
2. Write in detail about the assessment of spasticity. [CO4] [Unit 1] [Understand LOT]
3. Draw spinal cord and label it. Also explain the function of its structure. [CO1] [Unit 1] [Remember LOT]
4. Define UMN & LMN lesions and mention its symptoms. [CO2] [Unit 2] [Remember LOT]
5. Explain the concepts of key points control utilized in Bobath approach. [CO3] [Unit 3] [Understand LOT]
6. Provide a Detailed explanation on History assessment. [CO4] [Unit 1] [Remember LOT]
7. Summarise the levels of consciousness. [CO4] [Unit 1] [Remember LOT]
8. Elaborate on ontogenic development as per Rood approach. [CO3] [Unit 3] [Understand LOT]
9. Explain aphasia briefly. [CO5] [Unit 4] [Remember LOT]
10. Explain the sensory examination in detail. [CO4] [Unit 1] [Understand LOT]
11. Define MUAP & mention its factors affecting MUAP. [CO4] [Unit 1] [Remember LOT]

12. Explain Normal EMG activity at slight muscle contraction along with its diagram.[CO4] [Unit 1] [Remember LOT]
13. Explain ASIA in detail. [CO4] [Unit 5] [Understand LOT]
14. Differentiate between complete and incomplete SCI. [CO4] [Unit 5] [Understand LOT]
15. Explain ATNR used in Bobath approach & write a note on RIP. [CO3] [Unit 3] [Understand LOT]
16. Explain the Key Point Control of Bobath Approach.[CO3] [Unit 3] [Understand LOT]
17. Explain a treatment plan for Right side hemiplegia during flaccid stage according to Bobath. [CO5] [Unit 4] [Remember LOT]
18. Explain Autonomic dysreflexia. [CO4] [Unit 5] [Remember LOT]

Section B

(14 x 10= 140)

19. Explain the neurophysiological mechanism of symptoms that is found in UMNL & LMNL. [CO2] [Unit 2] [Understand LOT]
20. Write assessment of co-ordination along with its gradings. [CO4] [Unit 1] [Remember LOT]
21. Explain in detail regarding Abnormal EMG.[CO4] [Unit 1] [Remember LOT]
22. Write in detail about the brunnstorm stages of recovery.[CO3] [Unit 4] [Remember LOT] [CO3] [Unit 3] [Analyse HOT]
23. Analyse the inhibiting techniques used in the bobath approach explaining how they help to reduce abnormal muscle tone.[CO3](Unit 3) (Analyse HOT)
24. Explain Normal & Abnormal Postural reaction of Bobath Approach. [CO3] [Unit 3] [Understand LOT]
25. Analyse the contribution of stretch reflex in Muscle tone regulation along with its diagram.[CO1] [Unit 1] [Analyse HOT]
26. Formulate a treatment plan for a patient having Brunnstorm stage 2 of recovery. [CO3] [Unit 4] [Apply LOT]
27. Write the definition of MRP and provide a detailed explanation of principles of MRP and the factors associated with it. [CO3] [Unit 4] [Remember LOT]
28. How will you assess higher mental functions in a neurological patient? [CO4] [Unit 1] [Apply LOT]
29. Analyse the method of Transfer training from Wheelchair to floor and bed to wheelchair in T₁₂ level of Incomplete spinal cord injury patient. [CO4] [Unit 6] [Analyse HOT]

30. Analyse the differences in characteristics, Neurophysiology of Tone, deep tendon reflex and Babinski sign between UMN & LMN lesions and write the assessment of tone and reflex along with its gradings. [CO2] [Unit 1] [Analyse HOT]
31. Discuss the PNF techniques in detail. [CO3] [Unit 4] [Understand LOT]
32. Explain Brown Sequard syndrome along with a diagram. [CO4] [Unit 5] [Understand LOT]

Section C

(12x 20= 240)

33. Critically analyze how lesions in different cortical language areas (such as Broca's area and Wernick's area) lead to distinct types of aphasia. [CO5] [Unit 4] [Analyse HOT]
34. Analyse how sensory integration can be utilized in an 8 year old CP child. [CO3] [Unit 4] [Analyse HOT]
35. Analyse the characteristics of MUAP and discuss how EMG differentiates between normal and pathological muscle activity. [CO4] [Unit 1] [Analyse HOT]
36. Analyse the role of Biofeedback in a 45 year old male with right side hemiplegia.[CO3] [Unit 3] [Analyse HOT]
37. Discuss the treatment techniques for a hemiplegic patient according to brunnstorm movement therapy for stage 1,2,3 for Upper limb, Lower limb and trunk. [CO3] [Unit 4] [Analyse HOT]
38. Describe in detail the PT management for a 32 years old male with SCI at T6 Level, able to breath and do Upper limb Function properly but unable to sit upright and stand independently. [CO4] [Unit 6] [Analyse HOT]
39. Analyse in detail about the Essential component, analysis of functional component, practice of missing component, practice of functional task& transfer of training for upper limb function under MRP. [CO3] [Unit 4] [Analyse HOT]
40. Organize a treatment plan according to ROODS Approach for a 8-year old Cerebral palsy child. [CO3] [Unit 3] [Analyse HOT]
41. Design a bobath based treatment plan for a patient with left hemiparesis focusing on functional mobility. [CO3] [Unit 3] [Create HOT]
42. Write down the neurological assessment for an individual with midbrain injury. [CO4] [Unit 1] [Evaluate HOT]
43. Analyse the diagonal patterns used in PNF for both Upper limb & Lower Limb in a patient with right side Upper limb and Lower limb Muscle weakness. [CO3] [Unit 4] [Analyse HOT]
44. Write a detailed Assessment Format for T12 Incomplete SCI Patient.[CO4] [Unit 5] [Evaluate HOT]

Summary Sheet:

CO Wise

CO	Q.NO.	MARKS
CO1	3,25	15
CO2	4,19,30	25
CO3	5,8,15,16,22,23,24,26,27,31,34,36,37,39,40,41,43	220
CO4	1,2,6,7,10,11,12,13,14,18,20,21,28,29,32,35,38,42,44	180
CO5	9,17,33	30
TOTAL	44	470

UNIT WISE

UNIT	Q.NO.	MARKS
UNIT 1	1,2,3,6,7,10,11,12,20,21,25,28,30,35,42	130
UNIT 2	4,19	15
UNIT 3	5,8,15,16,23,24,36,40,41	100
UNIT 4	9,17,22,26,27,31,33,34,37,39,43	150
UNIT 5	13,14,18,32,44	45
UNIT 6	29,38	30
TOTAL	44	470

BTL

	Q.NO.	SCORE
LOT	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,24,26,27,28,31,32	190
HOT	23,25,29,30,33,34,35,36,37,38,39,40,41,42,43,44	280
TOTAL	44	470

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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.