



BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Physiotherapy-2021/B.Physiotherapy-2022

Course Name – Physiotherapy in Neurology and Neurosurgery and Psychiatry
Condition

Course Code - BPTC801

(Semester VIII)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

(i) Identify the function of Circle of Willis

- | | |
|-----------------------|---------------------------|
| a) Sensory processing | b) Collateral circulation |
| c) Venous drainage | d) CSF circulation |

(ii) Predict the area of brain that absorbs CSF fluid

- | | |
|----------------------|--------------------|
| a) Lateral ventricle | b) Arachnoid villi |
| c) Central canal | d) Choroid plexus |

(iii) Predict the fibers connecting different parts of the same hemisphere

- | | |
|-----------------------|------------------------|
| a) Projection fibers | b) Corticopetal fibers |
| c) Association fibers | d) Commissural fibers |

(iv) Predict the condition in which an individual is unable to recognize objects by touch is called

- | | |
|--------------------|------------------|
| a) Tactile agnosia | b) Somatoagnosia |
| c) Anosognosia | d) None of these |

(v) Predict the area responsible for coordinated skilled movement

- | | |
|-----------------------------|-------------------|
| a) Primary motor area | b) Pre motor area |
| c) Supplementary motor area | d) None of these |

(vi) Select the lobe that is primarily responsible for executive functions

- | | |
|-------------------|------------------|
| a) Occipital lobe | b) Parietal lobe |
| c) Temporal lobe | d) Frontal lobe |

(vii) Recall the level of spinal cord injury leads to tetraplegia

- | | |
|-------------------|-----------------|
| a) Thoracic spine | b) Lumbar spine |
| c) Cervical spine | d) Sacral spine |

(viii) Select the assessment that is done by ASIA Scale

- | | |
|-----------------------|---------------------------------|
| a) Cognitive function | b) Sensory and motor impairment |
|-----------------------|---------------------------------|

- c) Balance and coordination d) Cardiovascular function
- (ix) Choose the primary cause of fatigue in post-polio syndrome
- a) Decreased dopamine levels b) Myasthenia gravis
- c) Overuse of surviving motor neurons d) Psychological factors
- (x) Choose the scoring for severe TBI in Glasgow Coma Scale score
- a) 3 to 8 b) 3 to 9
- c) 9 to 12 d) 13 to 15
- (xi) Select the mechanism that leads to anterior cord syndrome
- a) Extension type b) Flexion type
- c) Internal rotation type d) External rotation
- (xii) Identify the structure associated with loss of balance
- a) Cerebellum b) Thalamus
- c) Pons d) Medulla
- (xiii) Name the nerve supply of medial rectus muscle
- a) CN I b) CN II
- c) CN III d) None of these
- (xiv) Identify the cranial nerves related to jaw jerk examination
- a) CN VI b) CN IV
- c) CN V d) CN VIII
- (xv) Name the nerve root value for trieps jerk
- a) C6, C7 b) C5, C6, C7
- c) C6, C7, C8 d) C8, T1

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Discuss about facilitatory techniques of roods approach. (3)
3. Illustrate the term spinal shock. (3)
4. Describe Lhermitte's sign. (3)
5. Write the classification of the chorea. (3)
6. Classify spinal cord injury based on severity of lesion. (3)

OR

Classify stroke according to brunnstrom grading. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain the physiotherapy management of foot drop. (5)
8. Prepare a note on motor relearning programme. (5)
9. Explain the PT management of poliomyelitis. (5)
10. Assessment of cortical sensation among neurologically ill patients. (5)
11. Discuss about the neurological complications of a cauda equina injury. (5)
12. Organize a note on assessment of leprosy. (5)

OR

Organize a note on PT management of leprosy. (5)
