

**MASTER OF PHYSIOTHERAPY
FIRST SEMESTER
NEUROLOGICAL DISORDERS I:
ASSESSMENT & EVALUATION
MPT – 104**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

(Objective)

Marks: 20

Choose the correct answer from the following:

1×20=20

1. Loss of axonal continuity with intact connective tissue coverings represents which type of nerve injury?
 - a. Neuropraxia
 - b. Axonotmesis
 - c. Neurotmesis
 - d. Neurolysis
2. The stance phase of the gait cycle accounts for approximately what percentage of the total gait cycle?
 - a. 40%
 - b. 50%
 - c. 60%
 - d. 70%
3. Central cord syndrome results in
 - a. Paraparesis
 - b. Quadriparesis
 - c. Upper limb weakness more than lower limb
 - d. Lower limb weakness more than upper limb
4. During which gait cycle phase does the foot prepare to leave the ground?
 - a. Loading Response
 - b. Midstance
 - c. Terminal Stance
 - d. Pre-swing
5. Which one of these is not considered a primary impairment following stroke?
 - a. Aphasia
 - b. Edema
 - c. Impaired Muscle Tone
 - d. Impaired Voluntary Control
6. Which nerve root is primarily responsible for the patellar (knee-jerk) reflex?
 - a. L2-L4
 - b. L5-S1
 - c. S1-S2
 - d. C5-C6
7. An unpleasant abnormal sensation whether spontaneous or evoked is called:
 - a. Dysesthesia
 - b. Hyperalgesia
 - c. Hyperesthesia
 - d. Hyperpathia
8. How many primary phases is the gait cycle divided into?
 - a. 2
 - b. 4
 - c. 6
 - d. 8

9. Cause of Bell's palsy is
 - a. Idiopathic
 - b. Vascular
 - c. Trauma
 - d. Cold Exposure
10. A hyperactive deep tendon reflex is typically associated with
 - a. Lower motor neuron lesion
 - b. Upper motor neuron lesion
 - c. Peripheral neuropathy
 - d. Muscle strain
11. Hemiplegia is:
 - a. Neuromuscular Disease
 - b. Neurovascular Disease
 - c. Musculoskeletal Disorder
 - d. None
12. The Achilles tendon reflex tests the integrity of which spinal nerve roots?
 - a. C5-C6
 - b. L2-L4
 - c. L5-S1
 - d. S1-S2
13. ASIA Impairment scale is used to assess:
 - a. Assess the extent of Injury
 - b. Assess sensation
 - c. Assess motor power
 - d. None
14. The FIM scale is often used to assess progress in which type of patients?
 - a. Psychiatric patients
 - b. Cardiac patients
 - c. Rehabilitation patients
 - d. Paediatric patients
15. Stereognosis is
 - a. Ability to hear
 - b. Ability to recognize objects by feeling and manipulation
 - c. Ability to move joint
 - d. All of the above
16. The hypoglossal nerve (CN XII) is primarily responsible for
 - a. Eye movement
 - b. Facial expression
 - c. Tongue movement
 - d. Hearing
17. Coordination is assessed by
 - a. Passive Movement
 - b. Muscle Strength
 - c. Finger Nose Test
 - d. None of the above
18. Which cranial nerve is responsible for balance and hearing?
 - a. Glossopharyngeal nerve
 - b. Vagus nerve
 - c. Vestibulocochlear nerve
 - d. Hypoglossal nerve
19. Intentional tremor will be seen in
 - a. Sleep
 - b. Rest
 - c. Voluntary Movement
 - d. All of the above
20. The OASIS assessment tool is primarily used in
 - a. Hospital inpatient care
 - b. Home health care
 - c. Long-term care facilities
 - d. 8Rehabilitation centers

(Descriptive)

Time: 2 hrs 30 min

Marks: 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Explain SD Curve in detail along with its principles, preparation and applications. Also mention the types of SD Curves | 7+3=10 |
| 2. Define the Barthel Index. Its usage and scoring interpretations. | 10 |
| 3. Explain Lumbar Puncture Procedure along with its precautions and applicability. | 10 |
| 4. Write in detail about the assessment of gait and balance. | 10 |
| 5. Explain NCV in detail along with its clinical application | 10 |
| 6. Write the differences between spasticity and rigidity along with their assessments. | 10 |
| 7. Explain Neurophysiotherapy general Assessment. | 10 |
| 8. Write about the cranial nerve assessment and mention their functions. | 10 |

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