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The Assam Royal Global University, Guwahati
Royal School of Medical & Allied Sciences
Masters of Physiotherapy, 3rd Semester
Semester End Examination, January 2023
Course Title: Adult Neurology I
Course Code: PHT244D302

Time: 3 Hours

Maximum Marks: 70

Note: Attempt all questions as per instructions given.
The figures in the right-hand margin indicate marks.

Section – A

1. Attempt **all** questions. (Maximum word limit 50) 2 x 8
- a. Explain the role of cerebellum in motor function.
 - b. What is counter coup injury?
 - c. What are the functions of mobility aids?
 - d. Name the approaches used for cognitive dysfunction.
 - e. What is compound motor action potential?
 - f. What are CPGs? Explain the role of CPGs.
 - g. Define neuroplasticity.
 - h. What is RIP in Bobath?

Section – B

2. Attempt **any two** of the following: 6 x 2
- a. Which system is involved in detecting changes in angular acceleration of head. Explain how it functions.
 - b. Explain in detail about the motor divisions of peripheral nervous system.
 - c. Discuss the limitations & clinical implications of hierarchical theory.
3. Attempt **any two** of the following: 7 x 2
- a. What is idiopathic orthostatic hypotension? Give its types, pathophysiology & clinical features.
 - b. What is the characteristic feature of apraxia? Define the three types of apraxia. Give examples.
 - c. Discuss ASIA scale in detail.
4. Attempt **any two** of the following: 7 x 2
- a. Explain the basic principles of nerve conduction studies.
 - b. Write a note on repetitive nerve stimulation at slow & fast frequencies.
 - c. Discuss the EMG findings in neurogenic & myopathic disorders.
5. Attempt **any one** of the following: 14 x 1
- a. Illustrate the common facilitatory & inhibitory techniques in detail.
 - b. Discuss the pathophysiology of stroke & the principle of assessment of a 60-year-old stroke patient with hemiplegia of non- dominant side.