

## PT IN NEUROLOGICAL SCIENCES

### QUESTION BANK

#### UNIT- I

### A. NEUROANATOMY & NEUROPHYSIOLOGY

#### Topic: Structure & Function

(Cerebral Hemispheres, Cerebellum, Spinal Cord, Peripheral Nerves, Pyramidal System, Extrapyramidal System, Neuron, Synapse)

□ PART A – 15 MARK QUESTIONS (Long Essays)

(Total: 5 Questions)

Q.No	Question	Topic	Bloom's Level	University Reference	Year
1	Describe the <b>structure and functions of the cerebral hemispheres</b> with applied clinical correlations.	Cerebral Hemispheres	Understand → Analyze → Apply	TN Dr. MGR Medical University	2019
2	Explain the <b>cerebellum</b> under gross anatomy, connections, functions, and lesions.	Cerebellum	Understand → Analyze	RGUHS, Karnataka	2018
3	Describe the <b>spinal cord</b> including external features, internal structure, tracts, and functions.	Spinal Cord	Understand → Analyze	KUHS, Kerala	2020
4	Explain the <b>pyramidal and extrapyramidal systems</b> with differences and clinical significance.	Motor Pathways	Analyze → Evaluate	MUHS, Maharashtra	2021
5	Describe the <b>structure of neuron and synapse</b> and explain synaptic transmission.	Neuron & Synapse	Understand → Apply	TN Dr. MGR Medical University	2017

## □ PART B – 5 MARK QUESTIONS (Short Notes)

(Total: 20 Questions)

Q.No	Question	Topic	Bloom's Level	University	Year
1	Functional areas of cerebral cortex.	Cerebral Hemispheres	Understand	TN Dr. MGR	2018
2	White matter of cerebral hemispheres.	Cerebral Hemispheres	Understand	RGUHS	2019
3	Cerebellar peduncles.	Cerebellum	Remember → Understand	KUHS	2017
4	Functions of cerebellum.	Cerebellum	Understand	MUHS	2020
5	Lesions of cerebellum.	Cerebellum	Apply	TN Dr. MGR	2021
6	Internal structure of spinal cord.	Spinal Cord	Understand	RGUHS	2018
7	Ascending tracts of spinal cord.	Spinal Cord	Analyze	KUHS	2019
8	Descending tracts of spinal cord.	Spinal Cord	Analyze	MUHS	2020
9	Structure of a typical spinal nerve.	Peripheral Nerves	Understand	TN Dr. MGR	2017
10	Classification of peripheral nerves.	Peripheral Nerves	Remember	RGUHS	2018
11	Pyramidal tract – course and function.	Pyramidal System	Analyze	KUHS	2019
12	Upper motor neuron lesion.	Pyramidal System	Apply	MUHS	2021
13	Components of extrapyramidal system.	Extrapyramidal System	Understand	TN Dr. MGR	2018
14	Functions of extrapyramidal system.	Extrapyramidal System	Understand	RGUHS	2020
15	Differences between pyramidal and extrapyramidal system.	Motor Systems	Analyze	KUHS	2021
16	Structure of neuron.	Neuron	Remember → Understand	MUHS	2017
17	Types of neurons.	Neuron	Remember	TN Dr. MGR	2018
18	Synapse – structure.	Synapse	Understand	RGUHS	2019
19	Types of synapse.	Synapse	Remember	KUHS	2020
20	Properties of synapse.	Synapse	Analyze	MUHS	2021

## □ PART C – 2 MARK QUESTIONS (Very Short Answers)

(Total: 20 Questions)

Q.No	Question	Topic	Bloom's Level	University	Year
1	Name the lobes of cerebral hemisphere.	Cerebral Hemispheres	Remember	TN Dr. MGR	2017
2	What is motor cortex?	Cerebral Hemispheres	Remember	RGUHS	2018
3	Define cerebellum.	Cerebellum	Remember	KUHS	2016
4	Name the cerebellar peduncles.	Cerebellum	Remember	MUHS	2019
5	What is spinal shock?	Spinal Cord	Remember	TN Dr. MGR	2020
6	How many spinal nerves are present?	Spinal Cord	Remember	RGUHS	2017
7	Define peripheral nerve.	Peripheral Nerves	Remember	KUHS	2018
8	Name any two cranial nerves.	Peripheral Nerves	Remember	MUHS	2019
9	What is pyramidal tract?	Pyramidal System	Remember	TN Dr. MGR	2017
10	Define UMN lesion.	Pyramidal System	Remember	RGUHS	2018
11	What is extrapyramidal system?	Extrapyramidal System	Remember	KUHS	2019
12	Name any two components of extrapyramidal system.	Extrapyramidal System	Remember	MUHS	2020
13	Define neuron.	Neuron	Remember	TN Dr. MGR	2016
14	Name parts of neuron.	Neuron	Remember	RGUHS	2017
15	What is synapse?	Synapse	Remember	KUHS	2018
16	Name any one neurotransmitter.	Synapse	Remember	MUHS	2019
17	Define synaptic delay.	Synapse	Remember	TN Dr. MGR	2020
18	What is reflex arc?	Spinal Cord	Remember	RGUHS	2018
19	Mention one function of cerebellum.	Cerebellum	Understand	KUHS	2019
20	Mention one function of pyramidal system.	Pyramidal System	Understand	MUHS	2021