

**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[MD 0723]**

**JULY 2023  
(MAY 2023 EXAM SESSION)**

**Sub. Code: 2020**

**M.D. DEGREE EXAMINATION**

**BRANCH V – PHYSIOLOGY**

**PAPER III – NERVOUS SYSTEM AND SPECIAL SENSES**

*Q.P. Code: 202020*

**Time : Three Hours**

**Maximum : 100 Marks**

**I. Essay Questions: (2 x 15 = 30)**

1. Draw a neat diagram and describe the origin, course and termination of Pyramidal Tract. Add a note on the differences between Upper Motor Neuron and Lower Motor Neuron Lesion.
2. Explain in detail how auditory impulse travels from cochlear hair cells to the auditory cortex with a neat labelled diagram. Add a note on Sensorineural Deafness.

**II. Short notes: (10 x 5 = 50)**

1. Properties of Receptors.
2. Motor aphasia.
3. Dopamine as Neurotransmitter.
4. Pupillary light reflex.
5. Role of Vitamin A in scotopic vision.
6. Functions of Thalamus and Thalamic syndrome.
7. Cortical plasticity.
8. Functions of Corpus callosum.
9. Pathophysiology of Alzheimer's disease.
10. Referred pain.

**III. Reasoning Out: (4 x 5 = 20)**

1. Give reason for pendular knee jerk in cerebellar lesion.
2. Allergic rhinitis impairs sensation of smell. Justify.
3. Sleep improves memory - Justify.
4. Give reason why movies begin to flicker when projector speed decreases.

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