

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

**[MD 0522]**

**MAY 2022**

**Sub. Code: 2091**

**M.D. DEGREE EXAMINATION**

**BRANCH XXIII – ANATOMY**

**PAPER III – HISTOLOGY, NEURO ANATOMY AND MUSEUM TECHNIQUES**

*Q.P. Code: 202091*

**Time : Three Hours**

**Maximum : 100 Marks**

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

1. Classify Lymphoid organs. Describe their microstructure with functional correlation.
2. Describe the various thalamic nuclei, their connections and blood supply.

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

1. Plastination.
2. Contractile apparatus of skeletal muscle.
3. Chemical basis and Principles of Eosin & Haematoxylin staining.
4. Cells in the gastric glands in fundus and body of the stomach.
5. Nuclei of the Vagus Nerve.
6. Cytoskeleton.
7. Compare and contrast the cerebral and spinal meninges.
8. Blood supply of Internal capsule.
9. Medial Medullary Syndrome.
10. Restiform Bodies.

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

**State whether each of the following statement is TRUE or FALSE and reason out.**

1. The more distal the injury to the nerve, the more effective the regeneration.
2. The mossy fibres in cerebellum are the terminal efferent fibres of the Olivo cerebellar tract and make contact with 1-10 Purkinje neurons.
3. Brush cells present in tracheal mucosal layer function as sensory receptor cells.
4. Melanophores are cells that are located in the stratum granulosum layer of epidermis and are responsible for synthesis of Melanin.

\*\*\*\*\*