



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION – MEDICAL LAB TECHNOLOGY**

**FIRST SEMESTER – NOVEMBER 2014**

**ML 1812 - HUMAN ANATOMY AND PHYSIOLOGY**

Date : 03/11/2014  
Time : 01:00-04:00

Dept. No.

Max. : 100 Marks

**SECTION –A**

**Answer ALL questions:**

**10x2=20 marks**

1. Mention the lobes that are present in cerebral cortex.
2. Define tidal volume and total lung capacity.
3. Draw a labelled structure of neuron.
4. Mention the types of cells that are present in epidermis.
5. Write the role played by the centers in hypothalamus.
6. List down the functions of muscle.
7. Draw and label the structure of human tooth.
8. Mention the primary functions of lymphatic system.
9. Enumerate primary and secondary sex organs of female.
10. Differentiate sensory from motor nerves.

**SECTION B**

**Answer any FOUR of the following:**

**4x10=40 marks**

11. Draw the structure of respiratory system and explain the lower respiratory organs.
12. Give an account on the composition and abnormalities of saliva.
13. Explain the regional terms of human body.
14. Draw the structure of pancreas and abnormalities of pancreatic hormones.
15. Discuss the structure and functions of hind brain.
16. Describe the oogenesis.

**SECTION-C**

**Answer any TWO of the following:**

**2x20=40 marks**

17. Draw the structure of nephron and explain the mechanism of urine formation.
18. Describe the structure, location and functions of connective tissue.
19. Give an account on the actions and abnormalities of anterior pituitary hormones.
20. Classify the types of muscles and explain the mechanism of muscle contraction.

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