 LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

THIRD SEMESTER – NOVEMBER 2012

# ML 3808 - HUMAN PHYSIOLOGY

Date : 03/11/2012 Dept. No. Max. : 100 Marks

Time : 9:00 - 12:00

**Answer ALL the following: PART A 10x2= 20 Marks**

1. Differentiate residual volume from inspiratory capacity
2. Comment on regulation of salivary secretion.
3. Draw the cross sectional view of spinal cord.
4. What is corpus luteum?
5. Name the hormones secreted by pituitary gland.
6. Mention the role of oxytocin.
7. Write a note on apocrine gland
8. Comment on diabetogenic effect.
9. List down the epidermal layers of skin.
10. What is cardiac cycle?

**Answer any FOUR of the following: PART B 4x10= 40 Marks**

1. Describe the actions of gastrointestinal enzymes.
2. Mention the hormones secreted by adrenal gland and explain their actions and abnormalities.
3. Describe dentition in man and explain the structure of a tooth.
4. Give an account on peripheral nervous system.
5. Draw and describe the structure of heart.
6. Explain the structure and functions of the rhombencephalon.

**Answer any TWO of the following: PART C 2x20= 40 Marks**

1. Draw and explain the structure of respiratory organ
2. Describe the synthesis, actions and abnormalities of thyroid hormones.
3. Explain the layers and glands of skin with a labelled sketch.
4. List down the functions and properties of muscle, and elaborate the mechanism of muscle contraction.

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