



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - MEDICAL LAB. TECHNOLOGY

THIRD SEMESTER – NOVEMBER 2011

ML 3808 / 3801 - HUMAN PHYSIOLOGY

Date : 02-11-2011
Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

Section – A

Answer **ALL** questions.

10 x 2 = 20 Marks

1. Draw the structure of gastric gland and mention the types of cells present in it.
2. What is reflex arc?
3. List down the functions of fibres present in deep reticular layer.
4. Mention the actions of parathyroid gland in human.
5. Draw and label the structure of neuron.
6. Enumerate the primary and secondary sex organs of male and female.
7. What is the cause of myasthenia gravis?
8. Mention the role played by the centers in hypothalamus.
9. Name the lobes that are present in cerebral cortex.
10. Define tidal volume and total lung capacity.

Section – B

Answer any **FOUR** of the following

4 x 10 = 40 Marks

11. Explain the structure of tooth with a suitable diagram.
12. Describe the composition, functions and abnormalities of saliva.
13. Explain the actions and abnormalities of pancreatic hormones.
14. Write notes on micturition.
15. Explain the structure and functions of respiratory organs.
16. Elaborate the functions of cranial nerves.

Section – C

Answer any **TWO** of the following

2 x 20 = 40 Marks

17. Describe the phases of ovarian cycle in detail.
18. Draw the structure of integumentary system and explain sweat and sebaceous glands.
19. Explain the mechanism of muscle contraction with illustrations.
20. Draw the structure of thyroid gland and explain the action, synthesis and abnormalities of thyroid hormones.
