



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - MEDICAL LAB. TECHNOLOGY

THIRD SEMESTER – APRIL 2013

ML 3808 - HUMAN PHYSIOLOGY

Date : 04/05/2013
Time : 1:00 - 4:00

Dept. No.

Max. : 100 Marks

SECTION –A

Answer ALL questions

10x2=20 marks

1. Draw and label the structure of hair follicle.
2. What are the properties of muscles?
3. Differentiate arteries from veins.
4. Mention the types of epithelial cells in human skin.
5. Define tidal volume and total lung capacity.
6. What are the lobes of cerebral cortex?
7. List the primary and secondary sex organs of male and female
8. Differentiate alopecia from alopecia areata.
9. Draw the structure of neuron and label the parts.
10. What are the hormones secreted by adrenal gland?

SECTION B

Answer any FOUR of the following

4x10=40 marks

11. Draw and explain the structure of spinal cord.
12. Give an account on respiratory volumes and capacities.
13. Draw and explain the structure of tooth
14. Describe the growth control methods in detail.
15. Explain the action, synthesis and abnormalities of thyroid hormones.
16. Explain the mechanism of muscle contraction with illustrations.

SECTION-C

Answer any TWO of the following

2x20=40 marks

17. List the hormones secreted by pituitary gland and mention the actions of anterior pituitary hormones.
18. Draw the structure of heart and explain the mechanism of blood flow.
19. Explain the formation of urine with a neat diagram of structure of nephron.
20. Draw and label the structure of integumentary system and explain sweat and sebaceous glands.
