



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - MEDICAL LAB. TECHNOLOGY

THIRD SEMESTER – NOVEMBER 2013

ML 3811 - FLUID ANALYSIS AND HUMAN DISORDERS

Date : 05/11/2013
Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

SECTION – A

Answer ALL the questions:

(10 x 2 = 20 Marks)

1. What is transcellular fluid?
2. Define osmosis and osmolality.
3. List down the functions of CSF.
4. What is acetylcholinesterase?
5. What are the behavioural changes seen in Prader Willi syndrome?
6. What is lymph?
7. What are the functions of sweat gland?
8. List down the three types of inherited Colour blindness disorders.
9. What are Charcot's joints?
10. Name the symptoms seen in Lesch Nyhan Syndrome.

SECTION – B

Answer any FOUR of the following:

(4 x 10 = 40 Marks)

11. Write short notes on sodium and potassium balance in body fluids.
12. Tabulate the normal and abnormal implications of amniotic fluid.
13. Draw and explain the structure of a synovial joint.
14. Explain the collection and disposal of sputum.
15. Elaborate pathogenesis and treatment of Sickle cell disease.
16. Classify Parkinson's disease and explain any four motor symptoms of the disease.

SECTION – C

Answer any TWO of the following:

(2 x 20 = 40 Marks)

17. Discuss in detail on water balance of the body.
18. Explain analysis of CSF.
19. Describe the structure of a normal and abnormal sperm and give a brief account of the production and composition of seminal fluid.
20. Write a detailed account on the various sources of minerals and their deficiency symptoms.
