LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – NOVEMBER 2010

#  ML 1810 - HAEMATOLOGY

 Date : 03-11-10 Dept. No. Max. : 100 Marks

 Time : 1:00 - 4:00

**Answer ALL the questions Section-A 2X10=20 marks**

1. What is ESR? Write the normal values.

2. Differentiate plasma from serum.

3. Comment on haemoglobin.

4.What are Heinz bodies?

5. Define haemophilia?

6. Differentiate wintrobes tube from westergren tube.

7. Define the term eosinophila.

8. Differentiate RBC pipette from WBC pipette.

9. What is megakaryoblast?

10. Differentiate Hayem’s fluid from Truck’s fluid.

**Answer any FOUR of the following Section-B 4X10=40 marks**

11. Give a brief account on the mechanism of blood coagulation.

12. Explain the procedure and clinical significance of bleeding and clotting time.

13. Write notes on various components of blood.

14. Describe briefly the macrohaematocrit and microhaematocrit.

15. Give brief account on red cell indices.

16. Write notes on various causes and types of anaemia.

**Answer any TWO of the following Section –C 2X20=40 marks**

17. Explain the principle, procedure and clinical significance of sickle cell preparation and LE cell preparation.

18. Give an account on prothrombin time and activated partial thromboplastin time.

19. Write the principle, procedure, normal value and clinical significance of RBC count and reticulocyte count.

20. Give an account on quality control and quality assessment programs.

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