



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION - ZOOLOGY**

**SECOND SEMESTER – APRIL 2013**

**ZO 2902 - MEDICAL LAB. TECHNOLOGY**

Date : 08/05/2013

Dept. No.

Max. : 100 Marks

Time : 9:00 - 12:00

**PART-A**

Answer **ALL** the questions

**(10 X 2=20 Marks)**

1. What is serum and plasma?
2. What is amniocentesis?
3. Define the term Xanthochromia.
4. What is sickle cell trait and sickle cell anemia?
5. Mention any four blood coagulation factors.
6. Draw neat labeled diagram of different types of white blood cells.
7. Mention the antigen and antibody pattern of ABO blood group.
8. Define the term oligohydramnios.
9. Draw the structure of abnormal sperm cells.
10. List down the normal ingredients of culture media.

**PART-B**

Answer any **FOUR** of the following

**(4 X 10 =40 Marks)**

11. Explain the composition and functions of blood.
12. Explain collection, composition and routine examination of amniotic fluid.
13. Write notes on haemolytic anaemia and iron deficiency anaemia.
14. Describe collection, screening and storage of blood in blood bank.
15. Elaborate the types and applications of the culture media.
16. Write down the principle, procedure and clinical significance of blood glucose estimation.

**PART-C**

Answer any **TWO** of the following

**(2 X 20=40 Marks)**

17. What is haematopoiesis? Explain the mechanism of erythrocyte formation with diagram.
18. Explain the mechanism of blood coagulation with suitable diagram.
19. Classify and explain the different methods of sterilization.
20. Discuss the physical, chemical and microscopical examination of urine sample.

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