



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FIFTH SEMESTER – APRIL 2016

AZ 5403 - MEDICAL LABORATORY TECHNIQUES

Date: 29-04-2016
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

Section -A

Answer ALL the questions

(10x2=20)

1. Comment on diapedesis.
2. Differentiate between MRI and CT scan.
3. State the objectives of fixation
4. Draw any four white blood cells.
5. Write the significance of freezing microtome.
6. Define autopsy and biopsy.
7. Define packed cell volume.
8. Write the principle of PET scan.
9. What is Embolism?
10. Comment on sphygmomanometer.

Section -B

Answer any FOUR questions

(4x10=40)

11. Discuss the life cycle and control measures of *Entamoeba histolytica*
12. Explain the procedure and applications of exercise test.
13. Given an account on bleeding disorder on man.
14. How hemoglobin can be estimated calorimetrically? State its clinical significance.
15. Explain the procedure for total WBC count and write its clinical significance.
16. Explain the mechanism and applications of MRI scan.

Section -C

Answer any TWO questions

(2x20=40)

17. Discuss the factors involved in the mechanism of blood coagulation.
18. Explain the histopathological process with illustration.
19. Elaborate the stages and process of human hemopoietic system.
20. Explain the life cycle and control measures of *Plasmodium vivax*.
