



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

**B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

**FIFTH SEMESTER – APRIL 2023**

**UAZ 5601 – MEDICAL LAB TECHNIQUES**

Date: 15-05-2023

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

**Section –A**

**Answer all the questions**

**(10x2=20)**

1. Define packed cell volume.
2. Comment on computer tomography.
3. Comment on physiological effects of alcohol and smoking.
4. Draw the malaria life cycle.
5. Mention the importance of exercise test.
6. Distinguish depolarization from repolarization.
7. Enumerate the safety measure in the laboratory.
8. State the significance of sphygmomanometer.
9. Define erythropoietin.
10. Write the preventive measures of dengue fever.

**Section –B**

**Answer any four questions**

**(4x10=40)**

11. Explain the procedure and mechanism of MRI scan with illustration.
12. Physiological effects of junk foods – Explain.
13. Cardiac cycle and common diseases of the cardiovascular system- Explain
14. Explain the categories of wastes and add a note on segregation of solid biomedical waste.
15. Explain the procedure and mechanism of ultrasound.
16. How hemoglobin estimated calorimetrically by cyanmethemoglobin method?

**Section –C**

**Answer any two questions**

**(2x20=40)**

17. Discuss the factors involved in the mechanism of blood coagulation.
18. Explain the classification of anemia based on the morphological & etiological method.
19. Elaborate the tissue processing histopathological techniques with illustrations.
20. Comment on: a) Total WBC count b) Life cycle of *Entamoeba histolytica*.

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