STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086 (For candidates admitted from the academic year 2019 – 2020 & thereafter)

B. Sc. DEGREE EXAMINATION, APRIL 2024 BRANCH VI.A. – ADVANCED ZOOLOGY AND BIOTECHNOLOGY FOURTH SEMESTER

COURSE : MAJOR – ELECTIVE

PAPER : MEDICAL LABORATORY TECHNOLOGY

SUBJECT CODE : 19ZL/ME/LT45

TIME : 3 HOURS MAX. MARKS: 100

SECTION A

ANSWER ALL THE QUESTIONS.

 $(10 \times 3 = 30)$

- 1. Comment on Turk's fluid.
- 2. Tabulate any three differences between normal and abnormal RBCs.
- 3. What is meant by GLP?
- 4. Enumerate the symptoms of Tuberculosis.
- 5. Differentiate between absolute and relative polycythemia.
- 6. Highlight the potential health hazards of Biomedical Wastes.
- 7. What is the normal range of RBC (in females), WBC and Platelets?
- 8. Mention any three transfusion reactions.
- 9. Comment on the clinical significance of fructose in seminal fluid.
- 10. Highlight the clinical significance of PAP smear.

SECTION B

ANSWER ANY FIVE QUESTIONS

 $(5 \times 6 = 30)$

- 11. Give a brief account on sterilization of laboratory items by heat.
- 12. Discuss in detail about the blood collection techniques.
- 13. Describe the estimation of Haemoglobin by Sahli's method.
- 14. Outline the methodology for estimating bleeding time and clotting time.
- 15. Write a note on the principle, procedure and clinical relevance of AST estimation.
- 16. Enumerate the procedure of blood smear preparation for differential count of WBC and add a note on its significance.
- 17. Give a detailed account on AIDS.

SECTION C

ANSWER ANY TWO QUESTIONS

 $(2 \times 20 = 40)$

- 18. Give a detailed account on the estimation of Packed Cell Volume and Erythrocyte Sedimentation Rate.
- 19. Explain ABO blood grouping and Rh typing.
- 20. Discuss in detail about the macroscopic and chemical analysis of urine.
- 21. Write the principle, procedure and clinical relevance of Blood cholesterol estimation.
