

B.Sc. DEGREE EXAMINATION - NOVEMBER 2019
BRANCH VI A – ADVANCED ZOOLOGY & BIOTECHNOLOGY
FIFTH SEMESTER

COURSE : MAJOR ELECTIVE
PAPER : MEDICAL LABORATORY TECHNOLOGY
TIME : 3 HOURS **MAX. MARKS: 100**

SECTION – A

ANSWER ALL THE QUESTIONS **(10 x 3 = 30)**

1. Expand EDTA and mention its application.
2. Enumerate the biomedical wastes which are subjected to incineration.
3. List the causes for polycythemia.
4. Give the normal thrombocyte counts in infants, children and adults.
5. Comment on Blood transfusion.
6. What is Prothrombin time?
7. Mention the composition and use of Stuart transport medium.
8. What are the types of Tuberculosis?
9. Highlight the significance of SGOT.
10. Comment on β – hCG.

SECTION – B

ANSWER ANY FIVE QUESTIONS **(5 x 6=30)**

11. Explain the preparation of RBC diluting fluid, WBC diluting fluid and Leishman's stain.
12. Give a brief account on the estimation of haemoglobin by Sahli's method.
13. Highlight the details of HDN in relation to Rh typing.
14. Explain the procedure for identification of malarial parasite in blood smear.
15. Write the principle, procedure and clinical relevance of Blood urea estimation.
16. Discuss in detail about the blood collection techniques.
17. Describe the macroscopic and microscopic analysis of urine.

SECTION - C

ANSWER ANY TWO QUESTIONS **(2 x 20=40)**

18. Outline the various techniques used to sterilize the medical laboratory items.
19. Elaborate the procedure of blood smear preparation for differential count of WBC and add a note on its clinical significance.
20. "Bleeding time differs from Clotting time" – Justify the statement with reference to the principle, procedure, normal range and clinical significance.
21. Write an essay on AIDS.
