

**B.Sc. DEGREE EXAMINATION - NOVEMBER 2016**  
**BRANCH VI A – ADVANCED ZOOLOGY & BIOTECHNOLOGY**  
**FIFTH SEMESTER**

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

**SECTION – A**

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

1. Comment on Turk's fluid.
2. Give the significance of reticulocytocrit.
3. List the different types of anaemia.
4. Expand the following a) ACD b) PCV c) MCH
5. Mention any three screening tests for Blood transfusion.
6. What are Thrombocytes? Highlight their functions.
7. Differentiate between Azoospermia and Oligospermia.
8. Draw a neat labeled diagram of the Neubauer counting chamber.
9. Give the normal range for the following  
a) Triglycerides b) Total serum cholesterol c) Blood urea
10. Give the principle of Western blot.

**SECTION – B**

**ANSWER ANY FIVE QUESTIONS** **(5 x 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 process of Blood coagulation.
14. Explain the procedure for identification of malarial parasite in blood smear.
15. Write a note on the principle, procedure and clinical relevance of ALT 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 x20=40)**

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

**\*\*\*\*\***