

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2008 –09)
SUBJECT CODE: ZL/MC/LT34

B.Sc. DEGREE EXAMINATION NOVEMBER 2009
BRANCH VI A: – ADVANCED ZOOLOGY & BIOTECHNOLOGY
THIRD 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. **FILL IN THE BLANKS**
 - a) The specific gravity of urine is determined by an instrument called _____.
 - b) _____ tube is used to determine ESR.
 - c) Haemoglobin level of normal man is _____.
2. **DISTINGUISH BETWEEN**
 - a) Leukemia and leucopenia
 - b) Plasma and Serum
 - c) PCV and ESR.
3. Draw neat labeled diagram of the Sahlis Haemoglobinometer.
4. What is a)
a) Occult blood
b) Bleeding time
c) Western Blot
5. Give the normal range for
a) Clotting Time b) Blood glucose c) PCV
6. **STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE:**
 - a) Leishman's Stain is used for the identification of Mycobacterium.
 - b) Bilirubin is the bile pigment.
 - c) Autoclave is used to sterilize the glasswares.
 - d) Low count of WBC is called Leukemia.
 - e) Deficiency of insulin results in Diabetes mellitus.
 - f) Incinerators are used for the disposal of biomedical waste.
7. **MATCH THE FOLLOWING:**

a) O – Toluidine	-	Anticoagulant
b) Hayems fluid	-	Amoebiasis
c) EDTA	-	Rh – type
d) ELISA	-	Glucose estimation
e) Rhesus Factor	-	RBC count
f) Entamoeba	-	HIV

8. Give the diagnostic significance of the following tests.
a) Prothrombin b) Benedicts test c) VDRL TEST
9. Give the expansion for the following.
a) HCG b) DC c) PCV
10. Name the causative organism for
a) Filariasis b) Tuberculosis c) AIDS

SECTION – B

ANSWER ANY FIVE QUESTIONS

(5x 6 = 30)

11. Describe the different types of anaemia.
12. Give an account on anticoagulants.
13. Explain briefly the physiology of ALT.
14. Write notes on the theories of blood clotting.
15. Describe the procedure for the estimation of haemoglobin.
16. Describe any one method for the estimation of Total Cholesterol.
17. Explain the microscopic analysis of urine.

SECTION – C

ANSWER ANY TWO QUESTIONS

(2 x 20 = 40)

18. Write an essay on sterilization of laboratory items.
19. Classify biomedical wastes and describe biomedical waste management.
20. Write an essay on Blood transfusion.
21. Write an essay on Pregnancy Tests.
