STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086 (For Candidates admitted during the academic year 2005 –06 & thereafter) SUBJECT CODE: ZL/MC/LT54

B.Sc. DEGREE EXAMINATION NOVEMBER 2007 BRANCH VI A: – ADVANCED ZOOLOGY & BIOTECHNOLOGY FIFTH SEMESTER

COURSE PAPER TIME	: MEDICAL LABORATO : 3 HOURS	ORY TECHNOLOGY CTION – A	MAX. MARKS: 100
AN	SWER ALL THE QUESTIO	NS	$(10 \times 3 = 30)$
1.	FILL IN THE BLANKS a) tube is use b) Removal of microbes from c) The p ^H of urine sample of r	the glasswares is known	ı as
2.	DISTINGUISH BETWEENa) Anemia and Polycythemiab) Coagulation and Agglutinac) Plasma and serum	tion	
3.	Draw neat labeled diagram of the magnified view of counting area of Neubauer Chamber.		
4.	What is a) Prothrombin Time b) Oligozoospermia c) Occult blood		
5.	Give the normal range for a) Clotting Time b) F	PCV c) Blood urea	1 .
6.	STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE: a) Hayem's fluid is essential for estimation of Haemoglobin. b) Mycobacterium causes tuberculosis. c) Bilirubin is the bile salt. d) High count of leucocytes is called leucopenia. e) Deficiency of Insulin results in Diabetes mellitus. f) Sterilisation of milk is by Incineration.		
7.	MATCH THE FOLLOWING a) Bile pigment - b) Autoclave - c) Clumping - d) Jamdice - e) Western Blot - f) Polyurea -	G: Blood group HIV Biliverdin Diabetes Hepatitis Sterilisation	

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- 8. Give the diagnostic significance of the following tests.
 - a) Bleeding time b) Platelet count
- c) Blood urea by DAM method.
- 9. Give the expansion for the following.
 - a) DC
- b) PCV
- c) SGOT
- 10. Name the causative organism for
 - a) Filariasis
- b) Giardiasis
- c) Cholera

SECTION - B

ANSWER ANY FIVE QUESTIONS

(5x 6 = 30)

- 11. Write the procedure for extimation of ESR. Give the normal value.
- 12. Draw neat labeled diagram of types of leucocytes. Give the normal value of DC.
- 13. Write a short note on physical features (Qualitative) analysis of motion.
- 14. Discuss briefly the pathological changes that occur in infection of Hepatitis
- 15. Describe the procedure for the estimation of Blood urea.
- 16. Explain briefly the physiology of SGPT.
- 17. Explain how Erythroblastosis foetalis is caused?

SECTION - C

ANSWER ANY TWO QUESTIONS

 $(2 \times 20 = 40)$

- Give an account of principle procedure and normal value for estimation of RBC
 Count. Give the clinical Significance.
- 19. Write an essay on blood clotting mechanism and the theory involving it.
- 20. Classify Biomedical wastes and add a note on Biomedical Waste management.
- 21. Describe in detail the life cycle of Plasmodium.
