# STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086 (For Candidates admitted during the academic year 2011 – 12)

**SUBJECT CODE: 11ZL/MC/LT54** 

# B.Sc. DEGREE EXAMINATION NOVEMBER 2013 BRANCH VI A – ADVANCED ZOOLOGY & BIOTECHNOLOGY FIFTH SEMESTER

COURS PAPER TIME	: MEDICAL LABOR	RATORY TECHNOLOGY	MAX. MARKS: 100
		SECTION - A	
	CR ALL THE QUESTIONS	S	$(10 \times 3 = 30)$
	TLL IN THE BLANKS	1.C 1 CDDC	
a			
	Autoclave operates at a temp  is used to	find out the specific gravity of t	ırine.
2. <b>I</b>	DISTINGUISH BETWEEN		
a	) Leucopenia and Leucocytos	is.	
b	) Erythropoiesis and Leucopo	iesis.	
С	) Casts and Crystals		
3. Г	Draw a neat labelled diagram of the Haemoglobinometer.		
4. V	What is a) GLP		
	b) Azoospermia		
	c) RIA		
	Give the normal range for		
a	) Bleeding Time b) ESR	c) Blood glucose	
6. <b>S</b>	STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE:		
	) Wintrobe's tube is used for e	_	
	) Hepatitis is a blood borne di		
	) Leishman stain is used for DC of WBC.		
	High count of erythrocytes is called anaemia.		
	Two serum enzymes are PSA and HCG.		
f	) Hot air oven is an example f	or sterilization by moist heat.	
7. N	MATCH THE FOLLOWING:		
a	,	- Clotting	
b	,r	- PCV	
c	,	- HIV	
	) Prothrombin time	- Blood grouping	
e	,	- Biomedical wastes	
f	Needles and Syringes	<ul> <li>Granulocytes</li> </ul>	

- 8. Give the diagnostic significance of the following tests.
  - a) Platelet count
- b) Serum cholesterol
- c) Rh typing
- 9. Give the expansion for the following.
  - a) ESR
- b) TB
- c) ALT
- 10. Name the causative organism for
  - a) Elephantiasis
- b) Malaria
- c) AIDS

#### SECTION - B

## ANSWER ANY FIVE QUESTIONS

 $(5 \times 6 = 30)$ 

- 11. Write the procedure for estimation of PCV. Give the normal values.
- 12. Draw neat labelled diagram of the different types of leucocytes. Give the normal value of DC.
- 13. Write a short note on macroscopic analysis of urine.
- 14. Discuss briefly the pathological changes that occur in Tuberculosis.
- 15. Describe the procedure for the estimation of blood urea by DAM method.
- 16. Explain briefly the physiology of AST.
- 17. Outline the classification of biomedical wastes.

### **SECTION - C**

#### **ANSWER ANY TWO QUESTIONS**

 $(2 \times 20 = 40)$ 

- 18. Give an account of principle, procedure, normal value and clinical significance for estimation of Haemoglobin.
- 19. Write an essay on stool analysis and its significance in parasitology.
- 20. Give a detailed account on sterilization of laboratory items.
- 21. Describe in detail Blood transfusion.

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