

Shri. Swami Vivekananda Shikshan Sanstha's
LAL BAHADUR SHASTRI COLLEGE OF ARTS, SCIENCE AND
COMMERCE, SATARA.
P. G. Department of Zoology

Certificate Course in CMLT
Syllabus

Theory

Unit 1. Cardio Vascular System: 08

Structure of Heart & its coverings, Major Blood vessels- arteries & veins, portal, systemic and pulmonary circulation. Blood pressure, cardiovascular diseases- hypertension, Ischemic heart disease, Congestive Cardiac Failure.

Unit 2 Laboratory Safety: 08

General principles of safety programmes, First aid and safety measures for Mechanical, Electrical, Chemical, Radioactive and Biological hazards; Universal safety precautions.

Unit 3 Hematology: 15

Introduction:

Composition of blood, its functions. Collection of blood - Different routes, difference between capillary and venous sample. Anticoagulants - Different types, method of preparation and uses.

Hemoglobin

Red Blood Cells

White Blood Cells

Unit 4 05

Examination Of Urine: normal and abnormal constituents of urine

Practical 12

1. Microscope – Parts and functions, Care, use and practice.
2. Hemoglobin Estimation – Sahil's Method
3. Differential WBC Count
4. ABO Grouping (a) Slide technique, (b) Tube technique, (c) Reverse and forward grouping
5. Rh typing - Slide and tube test.
6. Routine examination of urine