

## II YEAR B.Sc. MLT

### BIOCHEMISTRY II

No. Theory classes: 100 hours No.

Practical classes: 80 hours

#### THEORY SYLLABUS

##### 1. Clinical Laboratory [02 hours]

- Responsibilities of health care personnel
- Laboratory hazards – physical, chemical and biological, laboratory safety measures– safety regulations and first aid in laboratory

##### 2. Laboratory apparatus :

Different types, use, care and maintenance (Where appropriate, diagrams to be drawn in practical record ) [ 10 hours ]

- Glass ware in laboratory – Significance of boro silicate glass.
- Plastic ware in laboratory
- Cleaning of glass ware and plastic ware
- Pipettes - Glass and Automated
- Burettes, Beakers, Petri dishes, Porcelain dish
- Flasks - different types (volumetric, round bottomed, Erlenmeyer, conical etc..)
- Funnels – different types (Conical, Buchner etc..)
- Bottles – Reagent, Wash bottles
- Measuring cylinders, reagent dispensers
- Tubes – Test tube, Centrifuge tube, Folin-Wu tube
- Cuvettes and its use in measurements , cuvettes for visible and UV range
- Racks – Bottle, Test tube, Pipette and draining racks
- Tripod stand, Wire gauze, Bunsen burner, Dessicator, Stop watch, timers

##### 3. Instruments: Use, care and maintenance (Where appropriate, pictures/diagrams and schematic diagrams to be drawn in practical record ) [17hours]

- Water bath, Oven & Incubators, Distillation apparatus - water distillation plant and water deionisers, Reflux condenser, Cyclomixers , Magnetic stirrer, Shakers
- Refrigerators, Deep freezers, Cold box
- Centrifuges\*: Principle, Svedberg unit, centrifugal force, centrifugal field, rpm, Conversion of G to rpm and vice versa) Components, working, Different types of centrifuges
- Laboratory balances\*: Physical and analytical, Mono & double pan, Electronic balances, Weighing different types of chemicals, liquids, hygroscopic compounds etc, Precautionary measures while handling (Diagram)
- Photometry - Colorimeter\*- Principle, limitations of Beer-lambert's law, components, working.
- pH meter\*- Principle, components-

# Bsc Mlt Pdf

**H Kauffman**



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