

**BIOLOGY LABORATORY**  
**LIST OF REQUIREMENTS – FOR A CLASS OF 30 STUDENTS**  
**CLASSES VIII – X**

<u>APPARATUS</u>	<u>QUANTITY</u>
1) Dissecting Microscope	4
2) Compound Microscope	4
3) Hand Lens	30
4) Forceps	30
5) Needles	30
6) Test Tubes	100
7) Beaker	5
8) Funnel	5
9) Thistle Funnel	2
10) Droppers	4
11) Conical Flask	4
12) Glass Slides	1 Box
13) Cover Slips	5 pkts
14) Filter Paper	3 pkts
15) Vaseline	1 bottle
16) Dessicator	1
17) Semi permeable membrane (Parchment paper)	
18) Petri Dish (small)	5 sets
19) Watch Glass	20
20) 'Y' shaped glass tube	1
21) Bell Jar	2
22) Ganong's Potometer	1

**Reagents such as:**

- |                             |             |
|-----------------------------|-------------|
| 1) Iodine solution          | 250 ml      |
| 2) Fehling's A & B solution | 500 ml each |
| 3) Benedict's solution      | 500 ml      |
| 4) Sodium hydroxide         | 250 ml      |
| 5) Millon's reagent         | 1 bottle    |
| 6) Copper Sulphate solution | 250 ml      |
| 7) Nitric acid              | 250 ml      |
| 8) Sudan III                | 100 gm      |
| 9) Eosin                    | 1 bottle    |
| 10) Cobalt chloride         | 100 gm      |
| 11) Potassium Hydroxide     | 100 gm      |
| 12) Sucrose                 | 500 gm      |
| 13) Potassium permanganate  | 100 gm      |
| 14) Methylene blue          | 1 bottle    |

**Charts & Models of:**

- 1) Sycon
- 2) Metridium (Sea anemone) / Physalia, Corals
- 3) Tapeworm, Liverfluke
- 4) Ascaris (Roundworm)
- 5) Pheretima (Earthworm), Leech
- 6) Julus (millipede), Centipede
- 7) Palaemon (Prawn), Crab
- 8) Butterfly, Cockroach, Moth

- 9) Scorpion, Spider
- 10) Apple Snail (Pila) / Octopus / Sepia / Mussel
- 11) Starfish / Sea urchin
- 12) Scoliodon (Shark)
- 13) Labeo (Rohu Fish)
- 14) Common Toad, Frog
- 15) Garden Lizard, Turtle / Tortoise
- 16) Pigeon
- 17) Rabbit
- 18) Bat
- 19) Circulatory system
- 20) Digestive system
- 21) Respiratory system
- 22) Skeletal system
- 23) Types of Joints
- 24) Reproductive system
- 25) Endocrine system
- 26) Nervous system
- 27) Parts of a flower---- Hibiscus
- 28) Parts of a plant cell
- 29) Parts of an animal cell
- 30) Plant tissues
- 31) Animal tissues
- 32) L.S. of Ovule during fertilization

- 33) Structure of a Tooth
- 34) Structure of a Villus
- 35) Working model of human Lungs / model of respiratory system of man
- 36) Internal structure of Bean seed
- 37) Internal structure of Maize grain
- 38) Stages of Mitosis
- 39) Human excretory system
- 40) Longitudinal section of human Kidney
- 41) Structure of kidney tubule
- 42) Parts of Eye
- 43) Parts of Ear
- 44) Model of Heart – external & internal view
- 45) Model of Brain / V.S. of Brain of man
- 46) Model of Skin
- 47) Types of Blood Cells

**Permanent Slides of:**

- a) Plant cell and animal cell (as per middle school syllabus)  
Specific requirements for classes IX & X as per ICSE syllabus
- b) Human blood
- c) Amoeba / Paramecium
- d) Hydra
- e) Mitosis stages

**NOTE: THE REQUIREMENT FOR LABORATORY EQUIPMENT IS SUBJECT TO CHANGE  
BASED ON CHANGES IN THE ICSE SYLLABUS.**







