BIOLOGY LABORATORY

LIST OF REQUIREMENTS – FOR A CLASS OF 30 STUDENTS

CLASSES VIII – X

APPARATUS	QUANTITY
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.