

**DEPARTMENT OF CHEMISTRY**  
**LIST OF APPARATUS AND CHEMICALS**

Sl. No.	Particulars	Quantity
1	Digital Micro waves	01
2	Digital calorimeter	01
3	Digital PH Meter	01
4	Platinum Wire	10
5	Digital Melting point	01
6	Digital Boiling point	01
7	Micro burette	12
8	Induction Coil	02
9	Spectrophotometric Cell	01
10	Platinum electrodes	05
11	Copper foil	1 Pkt.
12	Kipps apparatus	5
13	Fractional distillation column	3
14	Conductivity Cell	5
15	Blow pipe	10
16	Projector	1
17	Funnel	6
18	Wire gauze	20
19	Gas regulator	5
20	Tongs	20
21	Test tube	100

**CHEMICALS**

Sl. No.	Particulars	Quantity
1	Mohr's salt	½ Kg.
2	Sodium carbonate	½ Kg.
3	Potassium Permanganate	1 Pkt.
4	Sodium thiosulphate	1 Pkt.
5	Potassium hydroxide	1 Pkt.
6	Ferrous Sulphate (FeSO <sub>4</sub> )	1 Pkt.
7	Filter paper	1 Bundle
8	Ammonium hydroxide	1 Lit.
9	Ferric chloride	½ Kg.
10	Sodium metal	¼ Kg.
11	Nickel Ammonium sulphate	1 Pkt.
12	Oxalate	1 Pkt.
13	Hydrochloric acid	½ Lit.
14	Sulphuric acid	½ Lit.
15	Nitric acid	½ Lit.
16	Ethyl alcohol	½ Lit.
17	Sodium nitroprusside	1 Pkt.
18	Magnesium salt	1 Pkt.
19	Acetone	½ Lit.
20	Benzo phenone	1 Pkt.

**DEPARTMENT OF BOTANY  
LABORATORY EQUIPMENTS AND CHEMICALS**

Sl. No.	Particulars	Quantity
1	Gel-electrophoresis unit with accessories	01
2	Digital HD-Microscope with 4.3 Inch LED Screen	01
3	Stand fitting magnifier with LED lamp	01
4	Quadrat	02
5	Herbarium plant press	02
6	Refrigerator stand	01
7	Glass aquarium showing eco-system	01
8	Electric –Cattle (Bajaj KTS) 0.8 Ltr	01

**CHEMICALS**

Sl. No.	Particulars
1	Agar agar medim (Nutrient)
2	Xyline
3	Citric acid
4	Silver sand
5	Aceto alcohol
6	LBF (Lecucobasicfuschin)
7	Vaseline
8	PAGE, AGE, Teaching Kit
9	Boric Acid
10	Paraffin wax
11	Petroleum eathor
12	Yeasts extract
13	Glycine
14	Kine tin
15	RNA – asc
16	Mercury

**Specimens**

1	Rhizopus – Thallus structure
2	Pencillium – Thallus structure
3	Raccia – Thallus structure
4	Anthoceros – Thallus structure
5	Psilotum – Thallus structure
6	Volvox – Thallus structure
7	Vaucheria – Thallus structure
8	Nostoc – Thallus structure
9	Odeagonium – Thallus structure
10	Equisetum – Micospore & megaspore

**DEPARTMENT OF BOTANY - LABORATORY REQUIREMENT**

Sl. No.	Particulars	Quantity
1	HP Laptop (Core i5, 12 <sup>th</sup> Gen., 8 GB DDR 4, 512 SSD, 15.6 Inch Screen)	01
2	LCD Digital Microscope – 7 Inch IPS Display – 1080 P (50x – 2000x Magnification with dual lence)	01
3	Digital HD – Microscope with 4.3 LCD (50x-1000x) Screen	01
4	System Table	01
5	Paper chromatography	04

**DEPARTMENT OF PHYSICS**  
**LIST OF APPARATUS AND CHEMICALS**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Quantity</b>
1	Manual stop watch (Racer Brand (1/10))	02
2	Lissajous figure Apparatus (Nisco / Asico Brand)	02
3	Changing discharging condenser (Nisco/Asico Brand)	01
4	DE-SAUTY BRIDGE (Nisco/Asico Brand)	01
5	Newton's Ring lens set (SKU100194 Brand)	01
6	4 bit Adder & Subtractor Apparatus (Nisco/Asico Brand)	01
7	Digital Trainer for Truth-Table of Flip – Flop	01
8	Dielectric Constant Set-up (Resonance method)	01
9	C-E NPN (Transistor Character Apparatus)	01
10	Boltzman Constant Kit	01
11	Digital multimeter	05
12	Meldes Aparatus	02
13	Prism (Equilateral 50x50 mm)	20
14	Watch Glass	10
15	Base plate	10
16	Slide Callipers (Bruss)	20
17	Wooden Scale (60 Cm.)	10
18	Hair Pin Packet	10
19	Meter bridge Set-Up	01
20	Spherometer (Brass)	01
21	Wooden Board (60x40 Cm.)	10
22	P-N Junction Diode	20
23	Transistor (BC635 Brand)	10
24	Transistor Kit (TECHDELIVERS Brand)	02
25	Bread Board	20
26	Integrated Circuit (IC) (NE555, 555 Timer IC Brand)	10
	INSIGNIA 555 Timer Brand	10
	74HCO8 IC & gate Brand	05
27	Set Jumper wire (Bread board Brand)	30
28	Crocodile Clip (Electronic Spices Brand)	20
29	Computer Desktop (HP Win.-11 or 10)	01

**DEPARTMENT OF ZOOLOGY  
LABORATORY EQUIPMENTS AND CHEMICALS**

Sl. No.	Particulars	Quantity
	<b>Microscope :</b>	
1	TOBO Digital Microscope, 7 Inch IPS Display, 1080P, 50x-2000x	01
2	ETZIN 9 inch Microscope HD Foldable Touch Screen Digital Biological Microscope	01
	<b>Museum Specimens :</b>	
3	Cypris	01
4	Cyclops	01
5	Leucosolenia	01
6	Butterfly	01
7	Cestrum	01
8	Anguilla	01
9	Patella	01
10	APUS	01
11	Lepas	01
12	Beroe	01
13	Aplysia	01
14	Holothuria	01
15	Pleuronectus	01
	<b>Permanent Slides</b>	
16	Heteronereis w.m. parapodia	01
17	T.S. of Ovary of mammal	01
18	Spongilla w.m.	01
19	Paramecium binary fission	01
20	Polytene chromosome	01
21	Noctilva w.m.	01
22	Bipinnaria Larva w.m.	01
23	Auricularia Larva w.m.	01
24	Miracidum Larva w.m.	01
25	Obelia medusa	01
26	Louse	01
27	T.S. of hyaline cartilage.	01
28	T.S. of elastic cartilage	01
29	T.S. of Calcified cartilage	01
30	T.S. of chick embryo of 18 hrs, 21 hrs, 28 hrs, 36 hrs.	01
31	w.f. of chick embryo of 28 hrs, 33 hrs, 36 hrs., 48 hrs.	01
	<b>Chemicals :</b>	
32	Sulphuric Acid 500 ml.	02
33	Ammonia Solution 500 ml.	02
34	Biuret Reagent 500 ml.	01
35	Glyoxalic Reagent 500 ml.	01
36	Potassium Ferricyanide 500 ml.	01
37	Corrosive Sublimate 500 ml.	01
38	Acetoalcohol 500 ml.	01
39	Formaldehyde solution 5 lit.	01
40	Absolute Alcohol	01

Sl. No.	Particulars	Quantity
	<b>Class work materials :-</b>	05
41	Nauplius larva	05
42	Appendages of prawn	05
43	Statocyst of prawn	05
44	Raclula of pila	05
45	Osphradium of pila	05
46	Sponging fibres	05
47	Parapodia of Nereis	05
48	Obelia Medusa	05
49	Septal Nephridia	05
50	Pharyngeal Nephridia	05
	<b>Preserved Materials for Dissection</b>	
51	Leech	100 Piece
52	Rat	50 Piece
53	Pila	100 Piece
54	Calotes	50 Piece
	<b>OTHERS :-</b>	
55	Aquarium (size 24x12x12) with accessories (Colour stones, oxygen ump, plants, fish food & fish) (Set)	01
56	Chromatographys Chamber with lid and chromatography papers (Set)	04
57	MILTON Insta Electric Kettle (2 Ltr., Silver Color) OR WIPRO Electric Kettle (1.8 Ltr. Black Color)	01
58	Aquaguard water filter	01
59	Zeondroff apparatus	01
60	Thermistor	05
	<b>Glasswares :</b>	
61	Thistle funnel : 250 ml.	05
62	Thistle Funnel : 500 ml.	05
63	Burette stand with Burette (Set)	06
64	Eiherizer bottle	12
65	Morgue Bottle	06

**DEPARTMENT OF ZOOLOGY  
LABORATORY EQUIPMENTS AND CHEMICALS**

Sl. No.	Particulars	Quantity
	<b>MICROSCOPE :-</b>	
1	mLabs advanced Trinocular microscope (with semiplan achromat objectives, 40x-1500xmag, Led illum, Reverse oseiece +2.0 megapixel camera)	01
2	Sky Desktop magnifier Lamp with LED light & folding system OR VAR-TECH 268 L LeD magnifying lamp.	02
3	PULLOX Digital microscope 50x – 1000x microscope slide box	02
	<b>BONES :-</b>	
4	Skull, vertebrae & appendicular bones of Columba (set)	02
5	Skull, vertebrae & appendicular bones of varanus (set)	02
6	Carapace & plastron of Turtle (set)	03
	<b>CHEMICALS :-</b>	
7	Blood Anti sera kit (with Anti-A, Anti-B & Anti-D) for group test	10
8	Orcinol reagent 6% 500 ml	01
9	Ferric chloride 500 ml	01
10	Calcemid solution 500 ml	01
11	Standard RNA 250 ul/ml – 500 ml	01
12	Alfa – Naptol 500 ml	01
13	Nylanders Reagent 500 ml	01
14	Carnoy's fluid 500 ml	01
15	Agar 500 gm.	01
16	Alkali iodiazide reagent 500 ml.	01
	<b>MUSEUM SPECIMENS :-</b>	
17	Hyalonema	
18	Euplectella	
19	Amphioxus	
20	Bufo	
21	Myxine	
22	Life cycle stages of Drosophila	
23	Mutants of Drosophila	
24	Types of silk moths	
25	Rhacophorus	
26	Ophiosaurus	
27	Anas	
28	Passer	
29	Psittacula (Parrot)	
30	Bubo	
31	Macropus	
32	Funambulus	
33	Streptocephalus	
34	Branchipus	
	<b>OTHERS :-</b>	
35	Lancet (Sterilized needle)	100
36	Secchi disc	05
37	Glass rod with platinum wire	10
38	DNA replication photographs/modules (Types of Replications)	04
39	Wall fitting Rack for specimen jar	01