

DEPARTMENT OF BOTANY

CHEMICALS

Sl. No.	Chemicals	Quantity
1.	D.P.X. Mountant 500 ml	2 bottle
2.	Formaldehyde Solution 500 ml	5 bottle
3.	Glacial Acetic Acid 500 ml	5bottle
4.	Hydrochloric Acid 500ml	2bottle
5.	Carmin Powder	10 gm
6.	Safranin 125 ml	5 bottle
7.	Canada Balsam 250ml	2bottle
8.	Glycerin 500ml	2bottle
9.	Orcein Powder	10gm
10.	Lactophenol in cotton Blue 500ml	1bottle
11.	Crystal Violet 125 ml	2bottle
12.	Iodine Solution 125ml	2bottle
13.	Bismark Brown 250ml	4bottle
14.	Sodium Carbonate	500gm
15.	Ethanol 500ml	10bottle
16.	Xylene 500ml	2bottle
17.	Copper Sulphate	500gm
18.	Aniline Blue	500gm
19.	Basic Fuchsin	500gm
20.	Cotton Blue	250ml
21.	Eosine	100ml
22.	Light green	50ml
23.	Lactic acid 500ml	2bottle
24.	Concentrated Sulphuric acid	50ml
25.	Fehling's Reagent	50ml
26.	. NaOH Solution	500ml
27.	Barfoed's Reagent	50ml
28.	Tannic Acid	50ml
29.	Seliwanoff's Reagent	50ml
32.	AgNo ₃ Solution	50ml
33.	Phenule Hydrazine Hydrochloride	50ml
34.	Sodium Acetate	100ml
35.	Ammonium Molybdate Solution	50ml
36.	Cobalt Chloride Solution	50ml
36.	Ammonium Hydroxide	500ml
37.	Calcium chloride Solution	100ml
38.	Lead acetate Solution	50ml
39.	Hydrogene Peroxide solution	500ml

40.	KMNO ₄ Solution	50ml
41.	Ferric chloride solution	50ml
42.	Mercuric Oxide	50ml
43.	Ferrous Sulphate Solution	50ml
44.	Ninehydrin Solution	50ml
45.	HgCl ₂ Solution	50ml
46.	Mercury	100ml
47.	Methanol	500ml
48.		

OTHERS

Sl. No.	Item	Quantity
1.	Compound microscope with 10x, 40xx & 100x lens by Olympus	4pcs
2.	Test Tube rack	20pcs.
3.	Scissor(large)	2pcs
4.	Hand gloves	5 pairs
5.	Graph Paper	1pc
6.	Calculator	1pc.
7.	Sticker	5pkt
8.	Marker Pen	5pcs
9.	Blotting Paper	2 bundle
10.	Cotton Absorbent	2 bundle
11.	SPIRIT LAMP	5pcs
12.	Staining Rack	2
13.	Filter paper	2 bundle
14.	Burette Stand with clamp	10pcs.
15.	Sealing Wax	500 gm
16.	Thermometer	1pc
17.	Tripod Stand	5pcs
18.	Measuring Tape	1pc
19.	Plastic Tray	20pcs

SPECIMEN SAMPLE

Sl. No.	Item	Quantity
1.	<i>Anabaena</i>	5 pcs
2.	<i>Oedogonium</i>	5 pcs
3.	<i>Chara</i>	5 pcs
4.	<i>Vaucheria</i>	5 pcs
5.	<i>Ectocarpus</i>	5 pcs
6.	<i>Polysiphonia</i>	5 pcs
7.	<i>Volvox</i>	5 pcs
8.	<i>Oedogonium,</i>	5 pcs
9.	<i>Mucor,</i>	5 pcs
10.	<i>Penicillium,</i>	5 pcs
11.	<i>Agaricus,</i>	5 pcs
12.	<i>Rhizopus,</i>	5 pcs
13.	<i>Penicillium,</i>	5 pcs
14.	<i>Ascobolus,</i>	5 pcs
15.	<i>Agaricus.</i>	5 pcs
16.	<i>Riccia,</i>	5 pcs
17.	<i>Funaria with mature capsule,</i>	5 pcs
18.	<i>Marchantia,</i>	5 pcs
19.	<i>Anthoceros with sporophyte,</i>	5 pcs
20.	<i>Lycopodium with stobilus,</i>	5 pcs
21.	<i>Selaginella with sporangia,</i>	5 pcs
22.	<i>Equisetum,</i>	5 pcs
23.	<i>Marsilea.</i>	5 pcs
24.	<i>Selaginella</i>	5 pcs
25.	<i>Pteris with cenosorus.</i>	5 pcs
26.	Stems of <i>Cucurbita,</i>	5 pcs
27.	Stems of <i>Dracaena,</i>	5 pcs
28.	Stems of <i>Bignonia,</i>	5 pcs
29.	Stems of <i>Boerhaavia,</i>	5 pcs
30.	Stems of <i>Tecoma,</i>	5 pcs
31.	Stems of Sunflower,	5 pcs
32.	Stems of Maize,	5 pcs
33.	Stems of <i>Cucurbita.</i>	5 pcs
34.	Leaves of <i>Bambusa ,</i>	5 pcs
35.	Leaves of <i>Nerium ,</i>	5 pcs
36.	Leaves of <i>Bambusa.</i>	5 pcs
37.	Roots of <i>Vanda ,</i>	5 pcs
38.	Roots of <i>Tinospora,</i>	5 pcs
39.	Roots of <i>Gram,</i>	5 pcs
40.	Roots of <i>Arum,</i>	5 pcs
41.	Roots of <i>Orchid.</i>	5 pcs

42.	Powder of <i>Alstonia</i> bark,	5 pcs
43.	Powder of <i>Adhatoda</i> leaf,	5 pcs
44.	Powder of <i>Strychnos</i> seed	5 pcs
45.	Powder of <i>Zinziber</i> rhizome	5 pcs
46.	<i>Nostoc</i>	5 pcs
47.	<i>Chlamydomonas</i>	5 pcs
48.	<i>Oedogonium</i>	5 pcs
49.	<i>Vaucheria</i>	5 pcs
50.	<i>Fucus</i>	5 pcs
51.	<i>Polysiphonia</i>	5 pcs
52.	<i>Rhizopus</i>	5 pcs
53.	<i>Penicillium</i>	5 pcs
54.	<i>Alternaria</i>	5 pcs
55.	<i>Puccinia</i>	5 pcs
56.	<i>Agaricus</i>	5 pcs
57.	Lichens (crustose, foliose and fruticose)	5 pcs
58.	<i>Marchantia</i>	5 pcs
59.	<i>Funaria</i>	5 pcs
60.	<i>Selaginella</i> .	5 pcs
61.	<i>Equisetum</i>	5 pcs
62.	<i>Pteris</i>	5 pcs
63.	<i>Cycas</i>	5 pcs
64.	<i>Pinus</i>	5 pcs

PERMANENT SLIDE

Sl. No.	Item	Quantity
ALGAE		
1	<i>Nostoc</i> with akinete, heterosis.	2pcs
2	<i>Chlamydomonas</i>	2pcs
3	<i>Oedogonium</i> with <i>Oogonia</i> and <i>Anthridia</i> .	2pcs
4	<i>Vaucheria</i> with <i>Oogonia</i> and <i>Anthridia</i> .	2pcs
5	<i>Fucus</i> with <i>Oogonia</i> and <i>Anthridia</i> .	2pcs
6	<i>Polysiphonia</i> with <i>Tetrasporangium</i> , <i>Cystocarp</i> .	2pcs

7	<i>Anabaena</i> with <i>akinetete, heterosis.</i>	2pcs
8	<i>Anabaena,</i>	2pcs
9	<i>Chara,</i>	2pcs
10	<i>Ectocarpus,</i>	2pcs
11	<i>Polysiphonia.</i>	2pcs
	Fungi:	
1	<i>Rhizopus</i> with sporangiospore	2pcs
2	<i>Penicillium</i> with conidia and conidiophore	2pcs
3	<i>Alternaria</i>	2pcs
4	<i>Agaricus</i> with basidia and basidiospore.	2pcs
5	<i>Puccinia</i> with sexual spore.	2pcs
6	<i>Ascobolus,</i>	2pcs
7	<i>Polyporus</i>	2pcs
	Bryophyta:	
1	<i>Funaria</i> - W.M. of leaf, rhizoids, operculum, peristome, annulus, spores; permanent slides showing antheridial and archegonial heads, L.S. of capsule and protonema.	2pcs
2	2) <i>Marchantia</i> - W.M. of rhizoids and scales, V.S. of thallus through gemma cup, W.M. of gemmae .V.S. of antheridiophore, archegoniophore, L.S. of sporophyte.	2pcs
3	<i>Anthoceros</i> sp	2pcs
4	<i>Funaria</i> sp	2pcs
1	Pteridophyta: <i>Selaginella</i> -, W.M. of leaf with ligule, T.S. of stem, W.M. of strobilus, W.M. of .microsporophyll and megasporophyll , L.S. of strobilus.	2pcs

2	<i>Equisetum</i> - T.S.of internode, L.S.of strobilus, T.S.of strobilus, W.M. of sporangiophore,W.M. of spores (wet and dry); T.S of Rhizome.	2pcs
3	<i>Pteris</i> .- T.S. of rachis, V.S. of sporophyll, W.M. of Sporangium, W.M. of spores, T.S. of Rhizome, W.M. of prothallus with sex organs and young sporophyte.	2pcs
4	<i>Lycopodium</i>	2pcs
5	<i>Marselia</i>	2pcs
	Gymnosperm:	
1	1. <i>Cycas</i> - Male cone and microsporophyll, megasporophyll,T.S. of leaflet, T.S.of coralloid root, T.S. of rachis, v.s. of leaflet,v.s. of microsporophyll, w.m. of spore), L.S. of ovule, T.S. of root.	2pcs
2	2. <i>Pinus</i> - T.S. needle, male cone, female cone, stem (T.S.,T.L.S. & R.L.S.)W.M. of dwarf shoot, T.S. of Needle, T.S. of Stem, , L.S./T.S.of Male cone, W.M. of Microsporophyll, W.M. of Microspores, L.S. of Female cone, T.L.S. & R.L.S. of Stem	2pcs
3	<i>Gnetum</i> - L.S. of ovule.	2pcs

CHART

Sl. No.	Instrument	Quantity
1	Normal Secondary Growth in dicot stem	1pc
2	Structure of a ideal bacterial cell	1pc
3	T.S. of Gram root	1pc
4	T.S. of Maize stem	1pc
4	T.S. of Bambusa leaf	1pc
5	Floral Diagram &floral formula	1pc
6	Development of a typical normal(8 nucleated) embryo sac.	1pc
7	Post fertilization changes in Capsella sp	1pc
9	T.S. of thallus Riccia sp	1pc
10	L.S. of Anthoceros sporophyte	1pc
11	L.S. of Funaria capsule	1pc
12	L.S. of Selaginella strobilus	1pc
13	T.S. of Pteris leaf with sorus	1pc
14	L.S. of Ovule in Cycas sp	1pc
15	L.S. of Ovule in Gnetum sp	1pc
16	Life cycle of Gymnosperm	1pc
17	Lytic and Lysogenic Cycle	1pc
18	Structure of a ideal bacterial cell	1pc
19	Binary Fission of Bacteria	1pc
20	Conjugation of Bacteria	1pc
21	Structure of root nodule of Bacteria.	1pc
22	T.S. of thallus Riccia sp	1pc
23	L.S. of Anthoceros sporophyte	1pc
24	L.S. of Funaria capsule	1pc
24	L.S. of Selaginella strobilus	1pc
26	T.S. of Pteris leaf with sorus	1pc
27	L.S. of Ovule in Cycas sp	1pc
28	L.S. of Ovule in Gnetum sp	1pc
29	Life cycle of Gymnosperm	1pc