

**K.T.S.P. MANDAL'S  
SAHEBRAOJI BUTTEPATIL MAHAVIDYALAYA,  
RAJGURUNAGAR  
DEPARTMENT OF BOTANY  
REQUIREMENT OF THE YEAR 2021-22**

**CLSSWORK MATERIAL**

<b>Sr. No.</b>	<b>NAME OF PARTICULAR</b>	<b>QUANTITY</b>
1	Algae - <i>Spirogyra</i> - Vegetative    Reproductive	20 Nos 20 Nos
2	Fungi- <i>Agaricus bosporus</i>	10 Nos
3	Lichens-Crustose, foliose, Fruitiouse	10 Nos
4	Bryophytes- <i>Riccia</i> –Vegetative	20 Nos
	Reproductive	10 Nos
5	Pteridophytes-Nephrolepis-Stolon, Rachis, Sprophyll	10 Nos 10 Nos 10 Nos 10 Nos
6	Gymnosperms-Cycas-Corolloid root, Rachis Leaflet, Male cone, Megasporophyll	10 Nos 10 Nos 10 Nos 10 Nos
7	Dicot-Sunflower stem	10 Nos
8	Dicot-Sunflower root	10 Nos
9	Hydrilla stem	10 Nos
10	Eichornia root	10 Nos
11	Eichhornia stem	10 Nos
12	Typha root	10 Nos
13	Typha leaf	10 Nos
14	<i>Bignonia</i> stem (Old)	10 Nos
15	<i>Dracaena</i> stem	10 Nos

**SLIDES**

<b>Sr. No.</b>	<b>NAME OF SLIDES</b>	<b>QUANTITY</b>
3	Dicot & monocot embryo	2 Nos.
4	Annona Stem –T.S.	2 Nos.
	Plant Meosis	2 each phage
6	Moringa Stem –T.S.	2 Nos.
7	Bignonia Stem – T.S.	2 Nos.
8	Dracaena Stem – T.S.	2 Nos.
9	Coleus Stem – T.S.	2 Nos.
10	Dicot embryo	2 Nos.
11	Monocot embryo	2 Nos.
12	Nostoc	2 Nos.

**CHARTS**

Sr. No.	NAME OF CHART	QUANTITY
1	Fruits- Parts of typical fruit	1No.
	Classification of fruits	
	I)Simple	1 No
	II)Aggregate	1 No.
1	III)Multiple	1 No.
2	Rubiaceae- <i>Hamellia patens</i>	1 No
3	Meliaceae- <i>Azadirachta indica</i>	1 No
4	Myrtaceae- <i>Callistemon lanceolatus</i>	1 No
5	Typha Root and Leaf- T.S.	1 No
6	Hydrilla stem – T.S.	1 No
7	Nerium Leaf –L.S.	1 No
8	Eichhormia Root – T.S.	1 No
9	Aloe vera Leaf- T.S.	1 No
10	Family- Amrylidaceae- <i>Polyanthus tubrosa</i>	1 No
11	Family Brassicaceae - <i>Brassica compestris</i>	1No.
12	Dicot stem – Annona, Moringa	1 No
13	Family- Solanaceae- Datura	1 No
14	Family- Apocynaceae- <i>Catharanthus roseus</i>	1 No.
15	Epidermail cell	1 No.
16	Somata	1 No.
17	Tetrasporiangiate anther	1 No.
18	Monocot and Dicot embryo	1No.
19	Trichome	1No.
20	Plant Meosis	1 No.
21	Compsrative character of Monocot and Dicot Plant	1No.

## INSTRUMENTS

Sr. No.	NAME OF CHART	QUANTITY
1	Burrete Potometer	12 Nos.
2	laminar Air Flow	1 No.
3	Agarose Gel Electrophoresis unit	1 No.
4	pH meter	1 No.
5	Electronic Balance	1No.
5	Micropipette - 100 and 1000 $\mu$ l	4 No.
6	water bath	1 No.
7	Tools of Taxonomy-1.Vasculum	1 No.
8	2. Secature	1 No.
9	3. Magnifying Lense	1 No.
10	4. Field Press	1 No.
11	Ecological Instrument- 1. Soil thermometer	1 No.
12	2. Maximum and Minimum Thermometer	1 No.
13	3. Cup Anemometer	1 No.
14	4. Wet and Dry Bulb Thermometer	1 No.
15	5. Hair Hygrometer	1 No.
16	Quadrante Method- Metali Nails	12 Nos.
17	Metalic string of one meter	12Nos.
18	Meter scale	3 No.
18	Cork borer	1 No.
20	Arc Indicator	1 No.

## CHEMICALS

Sr. No.	NAME OF CHEMICALS	QUANTITY
1	Formalin	1 lit
2	Acetone	2.5 lit
3	Sodium Hydroxide	500 gm
4	Citric acid	500 gm
5	HCl	500 ml
6	H <sub>2</sub> SO <sub>4</sub>	500 ml
7	HNO <sub>3</sub>	500 ml
8	Lab solvent	5 lit
9	Saffranin	
10	Fast Green	
11	Glycerine	
12	Ethyl Alcohol	
13	Iodine	
14	Copper sulphate	
15	KOH	
16	Potassium Iodide	
17	Murcury	
18	Murcuric Sulphate	
19	Ninhydrin	
20	n- Butanol	
21	Phenolphthaline	
22	Potassium hydroxide	
23	Methyl Alcohol	
24	Sodium nitroprusside	
25	Ammonia (Liq) NH <sub>3</sub>	
26	Nepthol	
27	Million"s reagent	
28	Naphoquinone -4 sulphate	
29	Sodium nitrate	
30	Sucrose	
31	NH <sub>4</sub> NO <sub>3</sub>	
32	KNO <sub>3</sub>	
33	MgSO <sub>4</sub> . 7H <sub>2</sub> O	
34	KH <sub>2</sub> PO <sub>4</sub>	
35	CaCl <sub>2</sub> .2H <sub>2</sub> O	
36	H <sub>3</sub> BO <sub>3</sub>	
37	MnSO <sub>4</sub> . 4H <sub>2</sub> O	
38	ZnSOP <sub>4</sub> .7H <sub>2</sub> O	
39	Na <sub>2</sub> EDTA	

40	CuSO <sub>4</sub> .2H <sub>2</sub> O	
41	COCl <sub>2</sub> .6H <sub>2</sub> O	
43	Na <sub>2</sub> MoO <sub>4</sub>	
44	FeSO <sub>4</sub> . 7H <sub>2</sub> O	
45	Nicotinic HCl	
46	Pyridoxine HCl	
47	Myo- inositol	
48	Glycine	
49	Agar-Agar	
50	Mercury Chloride	
51	Sodium hypochloride	
52	Streptomycin	
53	Bavistin	
54	Detergent- Tween- 80 or Teepol	
55	NaNO <sub>3</sub>	
56	NaNHO <sub>3</sub>	
57	CaCO <sub>3</sub>	
58	MgSO <sub>4</sub> . 7H <sub>2</sub> O	
59	K <sub>2</sub> HPO <sub>4</sub>	
60	Na <sub>2</sub> CO <sub>3</sub>	
61	Na <sub>2</sub> SiO <sub>3</sub>	
62	FeCl <sub>3</sub>	
63	MgCO <sub>3</sub>	
64	Urea	
65	Tris HcL	
66	EDTA	
67	SDS - Sodiun dodocil sulphate	
68	Phenol	
69	Tris - Saturated Phenol	
68	Isoamyl alcihol	
69	Sodium acetate	
70	Glycial acetic acid	
71	Chloroform	
72	Isoamyl alcihol	
73	Standered DNA	
74	Calf Thymus DNA	
75	Tri Sodium citrate	
76	Duphenyl amine powder	
77		
78		

<b>Sr. No.</b>	<b>NAME OF PARTICULAR</b>	<b>QUANTITY</b>
1	pH Paper	10 Pkt
2	Blotting paper	2 Rim
3	Morter and pestle	1
4	Parafilm	2 rim
5	Blade and Blade holder for Tissue culture	6
6	Muslin cloth	
7	Whatman Filter Paper No-01	4 Pkt

### **Glassware**

<b>Sr. No.</b>	<b>NAME OF PARTICULAR</b>	<b>QUANTITY</b>
1	Culture tube	24
2	Stock Bottles for Tissue culture	6
3	Amber bottles	6
4	Slides, coverslip, washglass	1 box each