

**SENTHIL COLLEGE OF EDUCATION**  
**BIOLOGICAL SCIENCE LABORATORY**

**LIST OF ITEMS IN BIO - ZOOLOGY**

<b>I. SLIDES</b>		
<b>SLNO.</b>	<b>ITEMS</b>	<b>QUANTITY</b>
1	Mammal non-striated muscle(involuntary)	1
2	Mammal striated muscle(voluntary)	1
3	Mammal cardiac muscle –T.S	1
4	Mammal nerve cell-T.S	1
5	Areolar connective tissue	1
6	Shark placoid scales	1
7	Animal cell	1
8	Plasmodium.vivax (protozoa)	1
9	Muscular Tissue	1
10	Columnar epithelium	1
11	WBC - Human	2
12	RBC –Human	1
13	Human blood smear	1
14	Tapeworm scolex	1
15	Tapeworm matured proglottid	3
16	Entamoeba Histolytica	1
<b>II.SPECIMENS</b>		
17	Sycon sponge	1
18	Shark	1
19	Ascaris male	1
20	Ascaris female	1
21	Marine prawn	1
22	Amphioxus	1
23	Aurelia	1
24	Apple snail	1
25	Tapeworm	1
26	Fresh water mussel	1
27	Calotes	1
28	Fresh water prawn	1
29	Madrepora coral	1
30	Earthworm	1
31	Frog	1
32	Krait	1
33	Sheep kidney-L.S	1

34	Starfish	1
35	Fungia coral	1
<b>III.SPECIMENS</b>		
36	Rana hexadactyla	3
37	Rock lobster	2
38	Lobster	2
39	Americana periplaneta(cockroach)	2
40	Rana popua	5
41	Bonny fish	6
42	Chick's heart	2
43	Goat heart	1
44	Hippocampus kude(seahorse)	1
45	Goat eye	1
46	Prawn	4
47	Sankara fish	4
48	Snail	1
49	Megascolex mauriti	1
50	Metuta victor(crab)	1
51	Goat brain	1
52	Upeneus sulphureus(sulphur goat fish)	1
53	Scorpion	1
<b>IV. CHARTS</b>		
54	Structure of Tapeworm	1
55	Human nervous system	1
56	Human Eye	1
57	AIDS	1
58	Visual human body ( Male and female genital organs)	1
59	Earthworm	1
60	Endocrine system-Endocrine Gland	1
61	Female reproductive system	1
62	Male reproductive system (Genito urinary organs)	1
63	Malarial parasite	1
64	Endocrine gland (photo model)	1
<b>V. MODELS</b>		
65	Human Brain-internal structure	3
66	Human skeletal parts	1
67	Human Nephron	1
68	Mammalian kidney-L.S	1
69	Human Ear-Internal structure	1
70	Human heart-L.S	1
71	Human Eye- L.S	1

72	Dove	1
<b>VI. MEDICAL INSTRUMENTS/DRUGS</b>		
73	Stethoscope	1
74	Antiseptic lotion -110ml	1
75	Eye drops bottle	1
76	Sphygmomanometer	1
77	Bifocal spectacles	1
78	Weighing machine	1
79	Measuring tape (Wall type)	1
80	Monoclonal Agglutinating antisera -1x10ml each (Determination of blood group)	1
<b>VII. CONSUMABLE ITEMS</b>		
81	Sodium hydroxide pellets purified (500g)	1
82	Sodium hydroxide pellets (500g)	1
83	Laboratory Rasayan chemico fine chem. (Formaldehyde-500ml)	2
84	Ethanol (absolute) (500ml)	1
<b>VIII. SOLUTIONS</b>		
85	Iodine solution – 500ml	1
86	Iodine solution – new(500ml)	1
87	Formaldehyde solution (Formalin) – 450gms– 1,500ml– 2	1
88	Fehling’s solution	2
89	Iodine Resublimed(Crystals) 100g	1
90	Phenol red solution	2
91	Nessler’s Reagent (125ml)	2
92	Ninhydrin solution (125ml)	2
93	Methyl red solution (125ml)	1
94	Phenol Reagent (125ml)	1
95	Safframine stain solution (125ml)	1
96	Urea NH <sub>2</sub> (500g)	1
97	Wright stain solution (125ml)	1
98	Benedict’s Reagent – 1 (500ml)	1
<b>IX. BIOLOGY EXPERIMENTS APPARATUS</b>		
99	Compound Microscope	4
100	Dissection Microscope	4
101	Dissection box	1
102	Dissection tray	8
103	Dissection board	10
104	Plastic Measuring cylinder (Jar) (1-1000ml, 1-500ml)	2

105	Glass-beaker(50ml)	1
106	Plain slides	81
107	Test tube stand	19
108	Test tube holder	13
109	Nylon brush	21
110	Pipette (4-10ml), 2 (20ml)	6
111	Tiles	12
112	Measuring Jar(glass) (1000ml)	1
113	Filler	6
114	Spatula	13
115	Aquarium tank(small size)	1
116	Test tube	68

## LIST OF ITEMS IN BIO - BOTANY

<b>I. SLIDES</b>		
SLNO.	ITEMS	QUANTITY
117	T.S of Dicot Leaf	1
118	T.S of Dicot Root	1
119	T.S of Monocot Root	1
120	T.S of Dicot Stem	1
121	T.S of Monocot Stem	2
122	T.S of Sclerenchyma	1
123	T.S of Collenchyma	1
124	T.S of Parenchyma	1
125	L.S of Ovule	1
126	L.S of Anther	1
127	V.S of Agaricus Gills	1
128	V.S of Nephrolepis Leaf with Sorus	1
129	W.M of Euglena	1
130	W.M of Volvox	2
131	W.M of Chlamydomonas	1
132	W.M of Nostoc	1
133	Coccus Bacteria	2
134	Bacillus Bacteria	2
135	Plant cell	1
136	Yeast Budding	1
137	Onion Peeling	1
138	Rhizopus sporangia	1
139	Pencillium Vegetative	1
140	Spirillum Bacteria	1
141	Spirogyra Vegetative	1

## II. CHARTS

142	Bacteria – Different forms & Pathogenic	1
143	All Kinds of Roots	1
144	Types of Inflorescence	1
145	L.H of Mucor	1
146	Types of Fungi	1
147	Virus	1
148	Green Algae	1
149	Insectivorous Plants	1
150	Dispersal of Fruits & Seeds	1
151	Meiosis in Plants	1
152	Modification of Stem	1
153	Modification of Root	1
154	Mitosis	1
155	Malvaceae – Hibiscus rosa sinensis	1
156	Euphorbiaceae – Ricinus communis	1
157	Musaceae – Musa paradisiaca	1

## III . PRESERVED SPECIMENS

158	Riccia Thallus	2
159	Euphorbia tiruchalli	1
160	Funaria Thallus	1
161	Rhizophora Aavecenia	1
162	Moss Plant Body	1
163	Hydrilla	1
164	Epigeal Germination	1
165	Plant Tissue Culture	1
166	Limnophylla heterophylla	1
167	Adiantum	1
168	Pitcher Plant	1
169	Selaginella Habit	1
170	Hypogeal Germination	1
171	Pteris	1

## IV. EXPERIMENTAL APPARATUS

172	Test Tube and Funnel Experiment	1
173	Ganong's Light Screen Experiment	1
174	Kuhne's Fermentation Experiment	1
175	Ganong's Respiroscope Experiment	1
176	Thistle Funnel Experiment	1
177	Ganong's Photometer Experiment	1
178	Lever Auxanometer	1

## V. SELF PRESERVED SPECIMENS

179	Carrot	1
180	Ginger	1
181	Garlic	1
182	Jasmine	1
183	Opuntia	1
184	Raddish	2
185	Cucumber	2
186	Mango	1
187	Ixoracoccinia	2
188	Nerium	1
189	Chilli	1
190	Tribulus	1
191	Agaricus	3
192	Onion	1
193	Cissus quandrangularis	1
194	Tomato	1
195	Magifera indica	1
196	Calotropis	1
197	Tendrill Climber	1
198	Respiratory Root	1
199	Zyzybus	1
200	Trikalli	1
201	Potato	1
202	Pineapple	1
203	False fruit	1
204	Hibiscus rosa sinensis	1
205	Lady's finger	1
206	Brinjal	1
207	Apple	1
208	Orange	1
209	Thespesia	1
210	Thorn Climber	1
211	Alofar padam	1
212	Moringa Winged seed	1
213	Cuscuta	1
214	Ficus religiosa	1
215	Bombax	1
216	Hydrilla	1