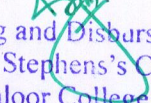


ST. STEPHEN'S COLLEGE, PATHANAPURAM

P.D.Fund 2024-25

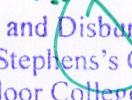
LIST OF EQUIPMENT/GLASSWARE/CHEMICALS/OTHER CONSUMABLES

EQUIPMENT				EQUIPMENT			
SL No	Items	Quantity	Specifications	SL No	Items	Quantity required	Specifications
1	12 module box and plate	2	-	2	12 V Battery Eliminator	1	Battery Eliminator 2-12V, 3 Amp
3	6 Ampere socket	6	Material: Polycarbonate, Color: White, 6 A ,240 V Polycarbonate	4	Anderson Bridge	1	Power Source- 230V AC +/- 10%, 50Hzs.
5	Concave lens	3	Material type-Glass, Product Dimensions- 5 x 5 x 1.2 cm; 50 g	6	Connection wire	1 roll	Copper Connecting Wire Cotton Insulated, Gauge 24
7	Convex lens	3	Material type-Glass, Product Dimensions- 5 x 5 x 1.2 cm; 50 g	8	CRO probe	5	Marker rings in different colors help to identify different channels. Band Width: 100MHz Rise Time: 3.5ns
9	Crystal for ultrasonic experiment (piezoelectric crystal)	10	-	10	Electronic weighing Balance	1	I Scale i-31
11	Fuse	2	AC Adapter Current 6 Amps Voltage 250 Volts Item dimensions L x W x H 6 x 2 x 2 Centimeters Material Brass, Glass	12	Kater's pendulum	1	Consists of steel C.P. Rod one meter long, two adjustable knife edges facing, two cast iron weight are provided to slide along the length. Two hardwood weight can be used to compensate iron weight
13	Magnet (Heavy weight)	3 set	-	14	Magnetic Stirrer with a hot plate	3	To work on 220/230 volts A.C supply, 2litres
15	Mercury Vapour lamp with wooden box	1	125 W , WEIGHT : 5.3 kg , SIZE : 23 x 21 x 37 cm	16	Micropipette with calibration (100 UI to 1 ml)	1	Single channel, Fully Autoclavable (100 UI to 1 ml) for Laboratory purpose
17	Moment Bar Apparatus	1	-	18	Multimeter	2 pcs	Digital Multimeter - For measuring DC Current, AC/DC Voltage, Duty Cycle, Resistance,


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							Diode, Continuity. With Double ceramic fuse for anti-burn and protection from overloading, with explosion-proof ceramic fuse tubes
19	Nose plier	1	- Material-Steel	20	One way switch	6	Operation Mode-manual Current Rating-6 Amps Operating Voltage:240 Volts Contact Type: Normally Open
21	Parallelogram law apparatus	1	Weight :- 50*5gm slotted weights(Set of 3) 3 sets of Weights with hangers and 2 set of Z Pulleys .	22	Photodiode	10	-
23	Plier tool	1	Material-Steel	24	Rheostat: 2.8 ohms	3	Variable_Sliding_Rheostat
25	Rheostat: 32 ohms	3	RHEOSTAT32 OHMS 0.5 Ampere Variable_Sliding_Rheostat	26	Screw gauge	2	Micrometer with ratchet stop, Brass with nickel polish, 0-15mm x 0.01mm
27	Screwdriver set	1	- Material-Steel	28	Searl's vibration apparatus	1	Consists of superior quality polish wooden box slotted, and carries a glass tube fitted with simple torsion head to support by means of a silk fibre, a strip holding magnet etc. Complete with one bar magnet and one brass bar. All metal parts are of magnet and one brass bar.
29	Soldering led	2 roll	10 x 10 x 10 cm; 50 g	30	Stand wire	1 roll	-
31	Steel wire	1 roll	-	32	Stopwatch	2	60 Second Timer
33	Stripper plier	1pcs	Material-Alloy Steel, 25L x 8W Centimeters	34	Switch	6	-
35	Thermometer	2	Analog Glass thermometer with Mercury, 32 Centimetres, Upper Temperature Rating 360 Degrees Celsius	36	Three core wire-10m	1	2.5 mm 3 core Copper Cable Wire
37	Three-pin	6	Length: 2.25 meters,	38	Voltage	2	-Suitable for extension




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	plug		offering extended reach for various applications. Material: Made with high-quality PVC, ensuring durability and flexibility. Core: 3-core construction for enhanced performance and safety. Plug Type: 3-pin design, compatible with standard outlets. Current Capacity: Rated for 6A,		Indicator for extension box		box
39	Weighing Balance-High precision balance for Laboratory purpose	1	High precision balance for Lab. Stainless steel material with LCD display, accuracy 0.01gm	--	--	--	--

GLASSWARE

GLASSWARE

SL No	Items	Quantity		SL No	Items	Quantity	
1	Capillary tube (for melting point determination)	4 Boxes	Inner Diameter-1mm	2	Ignition tube	5 packets	--
3	Silica Crucible	25 ml x 4 Nos	INFUSIL	4	Silica Crucible Lid only	25mlx 4 Nos	INFUSIL
5	Beaker	500mlx 4 nos	Borosilicate Glass	6	Beaker	1000ml x 3 Nos	Borosilicate Glass
7	Beaker	50ml x 3Nos	Borosilicate Glass	8	Glass tank	1No	(7cm x 7cm x 7 cm)
9	Glass rod	10 Nos	150 mm in length which is longer than an average stirrers glass; a diameter of 6 mm (0.23 inches).	10	Burette	100ml x 2 Nos	Borosilicate Glass
11	Laboratory Capillary Tube	10mL x 20 Nos.	--	12	Pipette Graduated	5 ml x 5 Nos	Borosil
13	Coverslip	50Nos	(20 mm X 40 mm)	14	Coverslip	1 Box	(18mm X 18 mm) ,Round Shape
15	Coverslip	1 Box	(18mm X 18 mm) ,	16	Coverslip		22mm X 22mm



[Signature]
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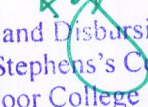
			Square Shape				S Nos.
CHEMICALS				CHEMICALS			
SL No	Items	Quantity	Specifications	SL No	Items	Quantity	Specifications
1	2-naphthol	250 g x 1 No.	LR grade	2	Acetic acid Glacial (99-100%)	500 ml x 1 No.	LR grade
3	Acetone	500 ml x 4 No	LR grade	4	Acetone	2.5 L x 1 No.	LR grade
5	Acetophenone	500 ml x 1 No	LR grade	6	Aluminium nitrate	500 g x 1 No.	LR grade
7	Aluminium sulphate	500 g x 1 No.	LR grade	8	Ammonia	2.5 L x 3 Nos.	LR grade
9	Ammonia Solution	500ml x 1 No.	LR grade	10	Ammonia solution	1000 ml x 1 No.	LR grade
11	Ammonium acetate	500 g x 1 No.	LR grade	12	Ammonium carbonate	500 g x 1 No.	LR grade
13	Ammonium chloride	500 g x 1 No.	LR grade	14	Ammonium chloride	1000 g x 1 No.	LR grade
15	Anti a b d	10 ml x 1 No.	LR grade	16	Aspartic acid	50 g x 1 No.	LR grade
17	Barium chloride	500g x 1 No.	LR grade	18	Barium sulphate	500 g x 1 No.	LR grade
19	Benzaldehyde	500 ml x 1 No.	LR grade	20	Benzamide	250 g x 1 No.	LR grade
21	Benzene	500 ml x 2 Nos.	LR grade	22	Benzophenone	250 g x 1 No.	LR grade
23	Bovine serum albumin	5 g x 1 No.	LR grade	24	Bromophenol blue solution	5 g x 1 No.	LR grade
25	Buffer solution	pH 4 (1 No.)	LR grade	26	Buffer solution	pH 9 x 1 No.	LR grade
27	Butanol	500 ml x 1 No.	LR grade	28	Cadmium chloride	100 g x 1 No.	LR grade
29	Calcium chloride	500 g x 1 No.	LR grade	30	Calcium fluoride	500 g x 1 No.	LR grade
31	Calcium nitrate	500 g x 1 No.	LR grade	32	Carbontetrachloride	500 ml x 1 No.	LR grade
33	Chloroform	2.5 L x 2 Nos.	LR grade	34	Citric acid	250 ml x 1 No.	LR grade
35	Clove oil for microscopy	100 ml x 2 Nos.	LR grade	36	Conc. Hydrochloric acid	2.5 L x 4 Nos.	LR grade
37	Conc. Nitric acid	2.5 L x 2 Nos.	LR grade	38	Conc. Sulphuric acid	2.5 L x 4 Nos.	LR grade
39	Copper sulphate	500 g x 1 No.	LR grade	40	Diethyl ether	500 ml x 1 No.	LR grade
41	Diphenyl	250g x 1	LR grade	42	DNA	25 g x 1	LR grade



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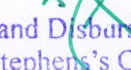
	mine indicator	No.				No.	
43	DPX (D.P.X. Mountant) (extra pure)	500 ml x 2 Nos.	LR grade	44	EDTA	100 gm x 1 No.	LR grade
45	Eosin powder	100 g x 1 No.	LR grade	46	Erichrome black T	25 gm x 1 No.	LR grade
47	Ethanol	500ml x 1 No.	LR grade	48	Ether Petroleum (60/80°C)	2.5 L x 1 No.	LR grade
49	Ethyl acetate	500 ml x 1 No.	LR grade	50	Ferric alum	500 g x 3 Nos.	LR grade
51	Ferric chloride anhydrous	500 g x 1 No.	LR grade	52	Ferrous ammonium sulphate	500 g x 4 Nos.	LR grade
53	Ferrous sulphate	500 g x 1 No.	LR grade	54	Folin-ciocalteu reagent	100 ml x 1 No.	LR grade
55	Formaldehyde solution	5 L g x 1 No.	LR grade	56	Glacial Acetic acid	2.5 L x 2 Nos.	LR grade
57	Glucose	25 g x 1 No.	LR grade	58	Glycine	250 g x 1 No.	LR grade
59	Grams iodine	125 ml x 1 No.	LR grade	60	Hexane AR	2.5L x 1 No.	LR grade
61	Hydrochloric Acid	500 ml x 2 Nos.	LR grade	62	Hydrogen peroxide (30%)	500 ml x 3 Nos.	LR grade
63	Iodine solution (N/10)	500 ml x 1 No.	LR grade	64	Isopropyl alcohol	500 ml x 3 Nos.	LR grade
65	Lampsolv	2 L x 1 No.	LR grade	66	Lampsolv Labgrade	500 ml x 2 Nos.	LR grade
67	Lead nitrate	500 g x 1 No.	LR grade	68	Leishman's stain	1 bottle	LR grade
69	Liquid paraffin (Paraffin Liquid Heavy)	500 ml x 1 No.	LR grade	70	Lithium carbonate	250 g x 1 No.	LR grade
71	Lithium carbonate	250 g x 1 No.	LR grade	72	M sol (Methanol)	500 ml g x 1 No.	LR grade
73	Magnesium nitrate	500 g x 1 No.	LR grade	74	Magnesium sulphate	500 g x 1 No.	LR grade
75	Manganese sulphate	500 gm x 1 No.	LR grade	76	Magnesium bicarbonate	250 g g x 1 No.	LR grade
77	Mercuric	250 g x 1	LR grade	78	Mercuric	25 g x 1	LR grade




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	chloride	No.			sulphate	No.	
79	Methyl acetate	500 ml x 1 No.	LR grade	80	Methyl benzoate	250 ml x 1 No.	LR grade
81	Methyl orange	125 ml x 1 No.	LR grade	82	N Propanol	500 ml x 1 No.	LR grade
83	n-Hexane	2.5 L x 1 No.	LR grade	84	Ninhydrin solution	500 ml x 1 No.	LR grade
85	Nitric acid	500ml x 1 No.	LR grade	86	Nitrobenzene	500 ml x 3 Nos.	LR grade
87	Paraffin Wax with ceresin	500 g x 2 Nos.	LR grade	88	Periodic acid	25 g x 1 No.	LR grade
89	Phenol	500 ml x 1 No.	LR grade	90	Phenolphthalein	125 ml x 1 No.	LR grade
91	Phenolphthalein indicator	250 ml x 1 No.	LR grade	92	Phosphotungstic acid	25 g x 1 No.	LR grade
93	Poly Lactic acid	500g x 1 No.	LR grade	94	Potassium chloride	500 g x 3 Nos.	LR grade
95	Potassium Dichromate	500 g x 1 No.	LR grade	96	Potassium ferricyanide	500 g x 1 No.	LR grade
97	Potassium hydroxide	500 g x 1 No.	LR grade	98	Potassium iodate	50 g x 1 No.	LR grade
99	Potassium iodide	100 g x 6 Nos.	LR grade	100	Proline	5 g x 1 No.	LR grade
101	RNA	10 g x 1 No.	LR grade	102	Safranin powder	100 g x 1 No.	LR grade
103	Schiffs reagent	250 ml x 1 No.	LR grade	104	Silica gel G for TLC	500 g x 2 Nos.	LR grade
105	Silver Nitrate	10 g x 1 No.	LR grade	106	Silver nitrate solution	125 ml x 3 Nos.	LR grade
107	Sodium hydroxide	500 g x 1 No.	LR grade	108	Sodium bicarbonate	500 g x 2 Nos.	LR grade
109	Sodium carbonate	500 g x 1 No.	LR grade	110	Sodium chloride	500 gm x 1 No.	LR grade
111	Sodium citrate	500 gm x 1 No.	LR grade	112	Sodium hexametaphosphate	250 g x 1 No.	LR grade
113	Sodium hydroxide pellets	500 g x 2Nos.	LR grade	114	Sodium thiosulphate	500 gm x 1 No.	LR grade
115	Sodium thiosulphate pentahydrate	500 g x 3 Nos.	LR grade	116	Stannous chloride	250 g x 1 No.	LR grade
117	Stannous	50 gm x 1	LR grade	118	Sucrose	500g x	LR grade




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	chloride	No.				2Nos.	
119	Sudan black Powder	100 g x 1 No.	LR grade	120	Sulphuric acid	500 ml x 1 No.	LR grade
121	Tertiary Butyl Alcohol	500 ml x 1 No.	LR grade	122	Thiourea	200 g x 1 No.	LR grade
123	Thiourea	500g x 1 No.	LR grade	124	Toluene Rectified	500 ml x 3 Nos.	LR grade
125	Trichloro acetic acid	100 ml x 1 No.	LR grade	126	Trisodium citrate powder	500g x 1 No.	LR grade
127	Wright stain	125 ml x 1 No.	LR grade	128	Xylene	500 ml x 2 Nos.	LR grade
129	Zinc acetate	250g x 1 No.	LR grade	130	Zinc sulphate heptahydrate	500 g x 1 No.	LR grade

NOTE: Preferred Brand of Chemicals - NICE

OTHER CONSUMABLES				OTHER CONSUMABLES			
SL No	Items	Quantity	Specifications	SL No	Items	Quantity	Specifications
1	Whatman No. 41 Qualitative Ashless filter paper - 90mm	1 Box (100 No)	> Grade - 41 >Circles	2	Whatman No. 1 Qualitative filter paper - 90mm	2 Boxes (100 No. each)	>Grade - 1 >Circles
3	Ordinary filter paper	50 Sheets	Sheets	4	Laboratory Cotton Roll (White)	300 gm x 3 Nos.	Lab use
5	Cotton Wicks for Alcohol Lamps (3/16" Wick)	10	(3/16" Wick)	6	Whatman filter Paper	25 Nos.	Circles
7	Lab Filter paper	1 Pkt	--	8	Chromatography paper	8 sheet	--
9	Whatman filter paper No.1	25 circles	11 cm dia	10	Rubber tube	5meter x 1 No	1 Rubber Tube Latex Rubber Tube Size- 7.5mmx30inches
11	Rubber bulb for Pipette	10 Nos.	For 10 ml Pipette.	11	Rubber bulb for Pipette	10 Nos.	For 5 ml Pipette.
13	Centrifuge tube	15ml x 12 Nos.	Plastic	14	Cylindrical Measuring cylinder	100 ml x 3 Nos.	Plastic



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