

**KONKAN EDUCATION SOCIETY
LOKNETE ADV DATTA PATIL HOMOEOPATHIC MEDICAL COLLEGE & HOSPITAL,
VENGURLA**



DEPT OF PHYSIOLOGY AND BIOCHEMISTRY

As on 01/012/2025

APPENDIX – 3

[(See clause (d) of sub- paragraph (6) of paragraph – B of the First schedule)]

List of equipment required for physiology lab

Sr. No.	Name of the article	Quantity	Available
01	Medical Microscope with oil immersion	25	40
02	Equipment for Erythrocyte sedimentation rate estimation or westergren's pipette for Erythrocyte sedimentation rate on stand	25 (with spare pipettes)	36 (19+ 7) (with 19 spares)
03	Haematocrit tubes	35	35 (with 65 spares)
04	Sahil's haemoglobinometer	35	59
05	Haemocytometer	25	55
06	Sphygmomanometer	25	36
07	Stethoscope	25	44
08	Clinical thermometer (digital or mercury)	25	64
09	Knee hammer	25	52
10	Tuning forks to test hearing (32-10000 hzs)	1 set	4 set
11	Electrocardiograph (ECG Machine)	01	01
12	Electronic Stop watches 1/10 sec.	04	21
13	Glass distillation (double) apparatus	01	10
14	Centrifuge	01	04
15	Colorimeter (photo electric)	02	02
16	Ph meter electric	02	02
17	Color perception lantern (edridge Green)	01	01
18	Educational compact disc, digital video disc, films, slides, model with audio-visual aids	As required	CD-05, DVD- 02, Video – 06, Film prepared- 159, Printed-76, Slide- 60, Models-08, Audiovisual I LCD, 1 Projector
19	Perimeter	01	03
20	Spirometer	01	03
21	Tonometer	01	02
22	Handgrips dynamometer	01	02
23	Bicycle ergometer	01	01

APPENDIX – 4

[(See clause (e) of sub- paragraph (6) of paragraph – B of the First schedule)]

Requirement for biochemistry

Sr. No.	Name of the article	Quantity	Available
1.	Electronic or monopan Balance	01	02
2.	Centrifuge	01	01
3.	Balance, chemical or ordinary	01	02



03	Eye piece 10x	02
04	Eye piece 15x	38
05	Magnifying lens	09
06	Coverslip	06 Box
07	Glass Slides	370
08	Sphygmomanometer Dial Type	02
09	Sphygmomanometer Electronic Type	01
10	Cotton	05 Bundle
11	Wintrob's Tubes	122
12	Westergren Tubes	163
13	Dropper	51
14	HB Pipette	75
15	RBC Pipette	20
16	WBC pipette	45
17	Glass Slide	03 Box
18	Thomass's Slides Additional	
19	Brush	25
20	Enamel Tray	08
21	Autoanalyzer	01
22	Graduated Tube (Round)	
23	Test tube Holders	50
24	Centrifuge Tubes	48
25	Capillary Tubes	9 boxes
26	Needles	4 boxes
27	Glass Rod	12
28	Pulse OX	
29	Filter Paper Round	4 boxes
30	Round Test Tube 2 ml	375
31	Gloves	2 boxes
32	ECG Jelly	13
33	ECG Roll	10
34	Vision Drum (Eye testing drum)	01
35	Litmus Paper Blue	05 boxes
36	Litmus paper Red	05 boxes
37	Camara	01
38	Ichihara Chart	01
39	Dropper	130
40	Reagent (in Refrigerator)	01
41	Pipette 1/20	20
42	Pipette .0.1ml	20
43	Pipette 1ml	20
44	Pipette Pauster	30
45	Pipette 1/10	15
46	Lumbar Puncture needle	15
47	Heating Point Apparatus	01
48	Melting Point Apparatus	01



03	Eye piece 10x	02
04	Eye piece 15x	38
05	Magnifying lens	09
06	Coverslip	06 Box
07	Glass Slides	370
08	Sphygmomanometer Dial Type	02
09	Sphygmomanometer Electronic Type	01
10	Cotton	05 Bundle
11	Wintrob's Tubes	122
12	Westergren Tubes	163
13	Dropper	51
14	HB Pipette	75
15	RBC Pipette	20
16	WBC pipette	45
17	Glass Slide	03 Box
18	Thomass's Slides Additional	
19	Brush	25
20	Enamel Tray	08
21	Autoanalyzer	01
22	Graduated Tube (Round)	
23	Test tube Holders	50
24	Centrifuge Tubes	48
25	Capillary Tubes	9 boxes
26	Needles	4 boxes
27	Glass Rod	12
28	Pulse OX	
29	Filter Paper Round	4 boxes
30	Round Test Tube 2 ml	375
31	Gloves	2 boxes
32	ECG Jelly	13
33	ECG Roll	10
34	Vision Drum (Eye testing drum)	01
35	Litmus Paper Blue	05 boxes
36	Litmus paper Red	05 boxes
37	Camara	01
38	Ichihara Chart	01
39	Dropper	130
40	Reagent (in Refrigerator)	01
41	Pipette 1/20	20
42	Pipette .0.1ml	20
43	Pipette 1ml	20
44	Pipette Pauster	30
45	Pipette 1/10	15
46	Lumbar Puncture needle	15
47	Heating Point Apparatus	01
48	Melting Point Apparatus	01



49	Beaker	04
50	Wire gauze Packet	04
51	Desiccator Big	01
52	Desiccator Small	04
53	Hygrometer	01
54	Stomach Tube	01
55	Foley Catheter	05
56	Ultra Violet lamp	01
57	Hair Aesthesiometer	01
58	Wall Thermometer	03
59	Anesthesia Box	01
60	Douglas Bag	01
61	Electronic Stimulator	01
62	Viscometer	01
63	PH Comparator	01
64	Concave Mirror	09
65	Tourniquet	80
66	Staining Rack	15
67	Blood lancet	04 box
68	Sphenograph	05
69	Syringe 05 ml	02
70	Syringe 02 ml	01

2. LIST OF MODELS- 08

1	Ear	01	2	Nose	01
3	Kidney	01	4	Heart	01
5	Spleen	01	6	Eyeball	01
7	Lung	01	8	Brain	01

3. LIST OF SPECIMANS- 05

1.	Lung left	01	2.	Heart	01
3.	Large intestine	01	4.	Right Kidney	01
5.	Stomach	01			

4. LIST OF FILM/CHARTS IN PHYSIOLOGY SR. NO. -21 D - 58

1.	Human Physiology	2.	Human Circulation of blood
3.	Human Anatomy E.N.T.	4.	Resperatory System
5.	The Heart - Cross section of Heart	6.	The muscles of Human body
7.	The structure of Human skeleton	8.	Conditions of ceaseran section
9.	Disorders of eyes	10.	Understanding cholesterol
11.	The Skin	12.	Female Rep. system Anatomy & Pathology
13.	Resperatory System	14.	Transmission of dorsal column
15.	Understanding type 2 Diabetes	16.	Pregnancy & Birth
17.	Understanding menopause	18.	Somato sensory Pathways
19.	Migraine & headache	20.	Structure of Rhodes & chemisty of vision

21. Female Reproductive system	22. Central neuro physiology of vision
23. The ear – organs of balance	24. Mechanism of hearing
25. Properties of neurones & synapse	26. Pain path ways – 2
27. Retinal neurons	28. Hypothalamus – functions
29. Immunity – I cell mediated Immunity	30. Spermatogenesis & reproduction
31. Genesis of white Blood cell	32. Cortico – spinal tract
33. Reticular activating & inhibiting system	34. Haemopoiesis
35. Cross section Reticuloendothelial organs	36. Immunity – II
37. Motor functions of the spinal cord	38. Motility & nervous control
39. Pathway for equilibrium of human body	40. Accommodation mechanism – I
41. Organs of corti	42. Central auditory pathways & perception
43. Acid – base nomogram	44. Menstruation
45. Accommodation mechanism – II	46. The Synapse
47. Pathways for synthesis of hormones	48. Pain pathways – I
49. Neuro – hormonal synthesis in brain	50. Golgi tendon organ
51. Olfactory pathways	52. Physiology of tooth
53. Motor control by cerebellum pathways	54. Receptor type
55. Somato sensory & skeleton motor nerve	56. Cerebellar pathways & over all control
57. Haemostasis & Blood coagulation	58. Pituitary Gland & its function
59. Menstrual cycle in human	

5. LIST OF SCIENTIST PHOTOGRAPHS - 09

1. Photograph of Karl Land	2. Photograph of Marcello Malpighi
3. Photograph of Herman Helmholtz	4. Photograph of Charls H. Best
5. Photograph of Willium Harvey	6. Photograph of Dr. Rene
7. Photograph of Stephen Hales	8. Photograph of J. E. Perkinje
9. Photograph of Schwan	

6. LIST OF HISTOLOGY SLIDES IN PHYSIOLOGY

1. Thymus gland-	2. Shaft Bone (Foetus)	3. Large Intestine
4. Fallopiian tube	5. Small Intestine	6. Tooth
7. Thyroid	8. Lung	9. Ear Pinna
10. Artery	11. Urinary Bladder	12. Sperm
13. Pancreas	14. Ileum	15. Large intestine
16. Kidney	17. Testis	18. Ureter
19. Vein	20. Bone	21. Lymph node
22. Parathyroid gland	23. Kidney	24. Thyroid Gland
25. Vein	26. Spleen	27. Smooth Muscle
28. Testis	29. Stomach	30. Jejunum
31. Cardiac Muscle	32. Liver	33. Salivary glands
34. Squamous epithelium	35. Pancreas	36. Duodenum
37. Cornea	38. Non Medullated Nerve fibe	39. Nerve Fibre Smear
40. Adrenal Gland	41. Elastic Cartilage	42. Hyaline Cartilage
43. Spinal Cord	44. Normal Blood smear	45. Abnormal Blood smear
46. Mammal Ovary T.S.	47. Human Skin	48. Human Blood smear RBC
49. Human Blood smear WBC		



Power Point Presentation - On Fourteen Topic (Are updated every year)

Existing - 14

01	Introduction	02	Introduction to endocrine
03	Ant. Pituitary	04	Post. Pituitary
05	Hyperpituitarism picture	06	Thyroid
07	Hyperthyroidism	08	Myxedema
09	Hyperthyroidism- picture	10	Male Reproductive
11	Female Reproductive	12	Menstruation
13	Parathyroid	14	Pancreas

8. TRANSPARENCIES

1. Prepared – 159

- 1) Renal Physiology 79
- 2) Respiratory 19
- 3) Digestive 23
- 4) Endocrine 06
- 5) C V S 32

2. Readymade 76

9. VIDEOS ON CLINICAL EXAMINATION –Downloaded (06)

1.	Basic Physical Exam. Respiratory System	2.	Clinical Exam. Respiratory System
3.	Basic Physical Examination-CVS System	4.	Clinical Exam. Cardiovascular System
5.	Clinical Exam. On abdominal System	6.	Blood Circulations Heart

10. ANIMAL EXPERIMENTATION CD–Downloaded (07)

1.	Effect of temperature and drugs on Frogs Heart
2.	Frogs Heart Experiment
3.	Frog Heart – Cardiac Cycle
4.	Muscle Fat-Skeletal Muscle, Summation, tetanus
5.	Muscle Fatigue-Slow & Fast Fatigue Frogs muscle Fibres
6.	Neuromuscular Experiment
7.	Physiology-Nerve Muscle

11. List of Reagent – Hematology (12)

Sr. No.	Name	Quantity as on 01. 02.2025	Expiry date
1	R B.C. Diluting Fluid	500ml	04/2029
	R B.C. Diluting Fluid	3 x 500 ml	04/2029
2	W.B.C. Diluting Fluid	500ml	10/2025
	W.B.C. Diluting Fluid	500ml	02/2028
	W.B.C. Diluting Fluid	500ml	08/2027
	W.B.C. Diluting Fluid	500ml	03/2026
	W.B.C. Diluting Fluid	2 x 500 ml	11/2026/ 08/2029



3	Leishman's Staining Solution	500 ml	02/2028
	Leishman's Staining Solution	500 ml	09/2027
	Leishman's Staining Solution	500 ml	09/2027
	Leishman's Staining Solution	500 ml	05/2028
	Leishman's Staining Solution	500 ml	05/2028
	Leishman's Staining Solution	1000 ml	11/2029
	Leishman's Staining Solution	1000 ml	02/2030
4	Leishman's buffer	500 ml	09/2027 / 05/2028 / 12
	Leishman's buffer	500 ml	09/2027 / 05/2028
5	HCL N/10 Solution	500 ml	11/2027 x 2
6	Spirit	500 ml	
7	EDTA Solution	500 ml	09/2027
	EDTA Solution	1000 ml	12/2027
8	Anti A, B and D (Kit)	01 Kit	08/2026

12 List of Reagent - For Biochemistry (75)

Sr. No.	Name	Quantity as on 01.12.2025	Expiry date
1.	Acetic Acid 1 % Solution	200ml	02/2028
2.	Acetic Acid 30 % Solution	1 x 1000 ml	02/2028
3.	Acetic Acid 25% Solution	100ml	
4.	Acetic Acid 99.5% Solution (Glacial)	500 ml	
5.	Alcohol Strong		-
6.	Alcoholic Iodine		-
7.	Alpha Naphthol 1 % Solution	100 gm	
8.	Ammonia Solution 25 %	3 x 500ml	02/2026 + 11/26
9.	Ammonium Molybdate	100 gm	08/2028
10.	Ammonium oxalate	500 gm	01/2028
11.	Ammonium sulphate Solution	500 gm	-
12.	Barfoed's Reagent	250 ml	-
13.	Barium Chloride	500gm	-
14.	Benedict's Reagent	500 ml	08/2028
15.	Benzidine Powder		-
16.	Calcium carbide	250 gm	-
17.	Chlorophenol Red Solution	5 gm	-
18.	Copper Sulphate Solution	500 gm	-
19.	Cupric Sulphate Powder		-
20.	Disodium tetraborate dehydrate 99%	500 g	10/2027
21.	Esbach's Reagent	125ml	12/2027
22.	Fehling's Solution No. 1	500 ml	11/2028
23.	Fehling's Solution No. 2	500 ml	12/2028
24.	Ferric chloride	1000 ml	11/2028
25.	Formaldehyde Solution 37 %	500 ml	01/2028



26.	Fouchet's Reagent 25 %	1 x 125 ml	01/2026
27.	Gower's Reagent (RBC Fluid)	500 ml	02/2028
28.	Hydrochloric Acid 35 %	1 x 500 ml	02/2028
29.	Hydrochloric Acid N/10	1 x 500 ml	01/2026
30.	Hydrogen Peroxide Solution	500ml	02/2026
31.	Iodine Solution	3 x 500 ml	04/2026, 3/2026
32.	Lead Acetate Basic Solution	1000 ml	
33.	Lead Nitrate 0.01 m	1000 gm	
34.	Liquid Ammonia - Diluted	500 ml	
35.	Liquid Ammonia- Strong		-
36.	Magnesium Sulphate 0.1m Solution	500 ml	
37.	Mercuric Chloride Solution	100 ml	
38.	Mercuric Nitrate 0.01m Solution	1000ml	
39.	Mercutic Sulphate 98%	100 g	02/2028
40.	Methylene Blue Solution	250 ml	11/2028
41.	Millon's Reagent Solution	1 x 125ml	12/2028
42.	Molish Reagent	100ml	
43.	Nessler's Reagent	250ml	12/2028
44.	Ninhydrine Reagent	50 ml	11/2026
45.	Nitric Acid Acid 69 %	500 ml	
46.	Nylander's Reagent	1 x 50 ml	10/2028
47.	Phenol Red indicator Solution	ml	09/2028
48.	Phenolphthalein Solution	125 ml	01/2026
49.	Picric Acid	100 ml	03/2028
50.	Potassium Chloride Solution	500 ml	
51.	Potassium Ferrocyanide 98%	500g	08/2028
52.	Potassium Oxalate	500g	06/2028
53.	Salicylic acid 99%	500 g	11/2027
54.	Seliwanoff's Reagent		-
55.	Silver Nitrate (N/10)	500 ml	
56.	Sodium Acetate	500 ml	-
57.	Sodium Carbonate 10 % Solution	500 ml	-
58.	Sodium Chloride	500 ml	09/2026
59.	Sodium Citrate Soln 3.8 %	500 ml	
60.	Sodium Hydroxide 1 % Solution	500 ml	01/2026
61.	Sodium Hydroxide 50 % Solution	500 ml	11/2028
62.	Sodium Hydroxide 45 % Solution	500 ml	02/2026 02/2028
63.	Sodium Hydroxide 6 % Solution	1000 ml	
64.	Sodium Hypobromide Solution		
65.	Sodium Nitrate		
66.	Sodium Nitroprusside Solution	100 g	02/2028
67.	Sulphosalicylic Acid 20% Solution	250ml	
68.	Sulphur Powder 98 %	500 gm	10/2028



69.	Sulphuric Acid 98 % Solution	2 x 500 ml	11/2028
70.	Sulfuric acid 98%	500 ml	11/2028
71.	Trichloroacetic Acid 20 %	2 x 500 ml	03/2026
72.	Napthol	100 gm	09/2028
73.	Distilled water	400 ml	-

13. LIST OF MATERIAL FOR BIOCHEMISTRY (Total-05)

Sr. No.	Name	Quantity as on 01. 12.2025	Expiry date
01	Glucose – Dextrose	500 gm	08/2028
02	Fructose	500 gm	09/2028
03	Sucrose	500 gm	12/2028
04	Maltose	500 gm	02/2028
05	Lactose	500 gm	06/2028

14. LIST OF DEAD STOCK (Total-16)

1.	Black Board	01	2.	Office table	02
3.	Cushion Chair	04	4.	Instrument cabinet	09
5.	Office table (Wooden)	02	6.	Ceiling Fan	08
7.	Examination table (Wooden)	03	8.	Wash basins	05
9.	Punch Machine	01	10.	Biowaste Dust Bin Biomedical	03
11.	Wooden Stool	25	12.	Dept. Phy. Stamp/Stamp Pad	01
13.	Bulb (Energy Sever)	12	14.	Tube Lights	10
15.	Duster	01	16.	Stapler	01

SUMMARY 01/12/2025

1.	Additional Items in Physiology	70	2.	Models	09
3.	Specimens	05	4.	Films Charts	58
5.	Scientist Photograph	08	6.	Histology Slides	51
7.	PPP	14	8.	Transparencies– Prepared	159
		Topic		Readymade	76
9.	Videos on Clinical Exam.	06	10.	Animal Experimentation CD	07
11.	Reagent Hematology	12	12.	Reagent Biochemistry	73
13.	Dead stock	16	14.		

Teaching Material

- 1) CD = 05
2) PPT = 14 Topic
3) Video = 06
4) Transparencies = Prepared 159, Readymade 76

PRINCIPAL

KES, LOKNETE ADV. DATTA PATIL
HOMOEOPATHIC MEDICAL COLLEGE & HOSPITAL
VENGURLA, MAIN ROAD VENGURLA
DIST - SINGHUBURGA 416316

HOD Signature

Stamp

DEPT OF PHYSIOLOGY AND BIOCHEMISTRY
KES, LOKNETE ADV. DATTA PATIL
HOMOEOPATHIC MEDICAL COLLEGE &
HOSPITAL, VENGURLA.