

**KONKAN EDUCATION SOCIETY'S**  
**LOKNETE ADV DATTA PATIL HOMOEOPATHIC MEDICAL COLLEGE & HOSPITAL, VENGURLA**  
**DEPT OF PHYSIOLOGY AND BIOCHEMISTRY**

As on 01/09/2021

**A) LIST OF EQUIPMENTS AS PER CCH**

<b>Details of Items/Equipments etc. available as per schedule-III of HCC(MSR) Regulations, 2013</b>				
<b>Sr. No.</b>	<b>Items</b>	<b>Required</b>	<b>Available</b>	
01	<b><i>For Human Experiments:</i></b>			
01	Medical Microscope	25	37	
02	Equipment for ESR estimation/Westergen's pipette for ESR on stand	25 (With spares)	36 (With 104spares)	
03	Haematocrit tubes	30 (with spares)	33 (with 63 spares)	
04	Auto Analyzer or sami Analyzer	01	01	
05	Haemoglobinometer Sahlis	25( with spares)	43	
06	Haemocytometer	25( with spares)	40	
07	Sphygmomanometer	25	27	
08	Stethoscope	25	29	
09	Clinical thermometer (digital)	25	37	
10	Knee hammer	25	29	
11	Tuning forks to test hearing 32-10-000 yps	1 set	2 set	
12	Stethographs or pneumographs	05	06	
13	Electrocardiograph (E.C.G.Machine)	01	01	
14	Electronic Stop watches 1/10 sec.	04	05	
15	Glass distillation still	01	01	
16	Centrifuge medium speed	02	02	
17	Calorimeter ( photo electric)	02	02	
18	P. H. meter Electric	01	01	
19	Colour perception lantern (edridge Green)	01	01	
20	Incubator	01	01	
21	Educational CD	As required	Available 02	
	DVD	As required	Available 02	
	Films	As required	Prepared -159 Printed - 76	
	Slides	As required	Histology – 51	
	Models	As required	Available 08	
	Audiovisual aids	As required	1 LCD,OHP,Slide projector	
22	Perimeter	03	03	
23	Spirometer	01	03	
24	Tonometers	01	02	
25	Handgrips Dynamometer	01	01	
26	Bicycle Ergometer	01	01	
	Facility for Animal Experiments Demonstration shall be done with the help of audio visual aids		07 CD,s, Specimens-5, Video-6 PPT -90 Topic	
02	Numbers of additional items availables		List attached-84	
03	<b><i>Biochemistry</i></b>			
	1.	Electronic Monopan Balance	01	01
	2.	Centrifuge	01	01
	3.	Balance, Chemical/ordinary	02	02
	4.	Water baths	02	02
	5.	Urinometer	25	26
	6.	Hydrometer ( 0.700 to 1.00)	02	03
	7.	Albuminometers	10	10
	8.	Gluconometer	10	15
9.	Thermometer	10	18	

	10.	Calorimeter	01	01
	11.	Hot air oven 14" x 14" x 14" (Electric	01	01
	12.	Dubble distillation apparatus Glass	10	10
	13.	Centrifuge Medium speed electric	01	01
	14.	Glass wares like	As Required	Available Available Available
		Pipets		
		Beakers		
		Burettes		
		Wires gouge with asbestos	As Required	Available-22
		Center hot plates,	As Required	Available-01
		Stove	As Required	Available-01
		Syringes	As Required	2ml – 187 5ml - 87 10 ml - 20
		Burners	As Required	Burners-12, Spirit Lamp-23
		Rubber tubing	As Required	Available-10
		Stands	As Required	Available-18
		Climps	As Required	Available-10
		Flask	As Required	Available-05
	15.	P.H. Meter	01	01
4	Numbers of additional items availables			List attached-Photo -10
5	Total Number of Charts			58

### 1. LIST OF ADDITIONAL ITEMS IN PHYSIOLOGY

1.	Binocular Research Microscope	02	2.	Eye Piece 5 X	05
3.	Eye piece 15X	20	4.	Cover Slip	2 Box
5.	Pointer	05	6.	Vision drum	01
7.	Haematocrite	33	8.	Graduated Tubes	05
9.	W.B.C. Pipette	56	10.	R.B.C. Pipette	32
11.	Tornicate	35	12.	Lancet	17
13.	Glass Slide	6 box	14.	Capillary Tube	07 box
15.	Haemoglobinometer pipette	42	16.	Cooton	½ kg
17.	Centrifuge Tubes	38	18.	Inelles chart	01
19.	Echera chart	01	20.	Ophtholmoscope	01
21.	Otolaryngoscope	01	22.	Overhead Projector	01
23.	LCD Projector	01	24.	Slide projector	01
25.	P H Meter	01	26.	Pipette Capillary (0.1ml)	10 box
27.	PipetteCapillary1ml in 1/100 ml	22	28.	Pipette 10 ml in 1/10 ml	52
29.	Pipette 5ml in 1/20 ml	22	30.	Haemometer pipette	03
31.	Lumber puncture needle	15	32.	Pauster Pippette	34
33.	Heating Melting point apparatus	01	34.	Melting point apparatus	01
35.	Dry and wet thermometer	03	36.	Wall Thermometer	01
37.	Desiccator Small size	04	38.	Desiccator Large size	01
39.	Douglas bags, complete	02	40.	Hair Hygrometer Dial	01
41.	Catheters	05	42.	Stomach tubes	05
43.	P.H. Comparator with disc	01	44.	Electronic Stimulation	01
45.	Ultraviolet – Lamp	01	46.	Litmus Paper	14 sets
47.	Camera	01	48.	Pulse ox	01
49.	Test tube Holder	34	50.	Enameled Tray Big	03
51.	Enameled Tray Small	06	52.	Dropper – 8 inch	48
53.	Dropper – 6 inch	10	54.	Dropper small size	34
55.	Weight box 200 gm	04	56.	Test Tube Stand (Small size )	30
57.	Tripod Stand	14	58.	Test Tubes	280
59.	Glycering Syringe	02	60.	Centrifuge mashine old	01
61.	Steriliser	01	62.	Measuring cylinder (Plastic)	05
63.	Measuring cylinder (Glass)	04	64.	Measuring round cylinder	10
65.	Viscometer	02	66.	Anesthesia Box	01

67.	Funnels ( Small Size )	03	68.	Funnels ( Large Size)	04
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69.	Glass Funnels 75 mm diameter	24	70.	Test Tube Stand (Big Size)	02
71.	Conical Flask	03	72.	Rectangular jar	03
73.	Water Distillation Still	01	74.	Refrigerator (big size)	01
75.	Oxygen cylinder with Trolley	01	76.	Wall thermometer	01
77.	Gas Cylinder with Regulator	01	78.	P.H. Comparator with disc	01
79.	Gas Samplings Tube	01	80.	Beaker conical narrow neck	17
81.	Centrifuge Tube	38	82.	Hygrometer	01
83.	Filter Paper	01 pices	84.	Staining Rack	20

## 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	6.		

## 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 Reproductive 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 & Photochemisty 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 – Reticulo endothelial organs	36.	Immunity – II
37.	Motor functions of the spinal cord & Reflexes	38.	Motility & nervous control
39.	Pathway for equilibrium of the 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 by AC	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.	Menstrual cycle in Human
55.	Somato sensory & skeleton motor nerve axis	56.	Cerebellar pathways & over all control
57.	Haemostasis & Blood coagulation	58.	Pituitary Gland & its function

## 5. LIST OF SCIENTIST PHOTOGRAPHS - 10

List of scientist photographs- 10			
1.	Photograph of Karl Land	2.	Photograph of Marcello Malpighi
3.	Photograph of R. T. H. Laennac	4.	Photograph of Charls H. Best
5.	Photograph of Herman Helmholtz	6.	Photograph of Dr. Samuel Haheneman
7.	Photograph of Willium Harvey	8.	Photograph of J. E. Perkinje
9.	Photograph of Stephen Hales	10.	Photograph of -Thedor Schwann

## 6. LIST OF HISTOLOGY SLIDES IN PHYSIOLOGY

1.	Thymus gland-	2.	Shaft Bone( Foetus)	3.	Large Intestine
4.	Fallopian tube	5.	Small Intenstine	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.	Lymphnode
22.	Parathyroid gland	23.	Kidne	24.	Thyroid Gland
25.	Vein	26.	Spleen	27.	Smooth Muscle
28.	Testies	29.	Stomach	30.	Jejunum
31.	Cardiac Muscle	32.	Liver	33.	Salivary glands
34.	Squamous epithelium	35.	Pancreas	36.	Deodenum
37.	Cornea	38.	Non Medulated Nerve fiber	39.	Nerve Fibre Smear
40.	Adrenal Gland	41.	Elastic Cartilage	42.	Hyline 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	50.	Plant Cell	51.	Animal Cell

**7. Power Point Prsantation - On Twenty Topic (Are updated every year)**

**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 –Dowanloaded (06)**

<b>1.</b>	Basic Physical Examination-Respiratory System	<b>2.</b>	Clinical Examination-Respiratory System
<b>3.</b>	Basic Physical Examination-Cardiovascular System	<b>4.</b>	Clinical Examination-Cardiovascular System
<b>5.</b>	Clinical Examination- On abdominal System	<b>6.</b>	Blood Circulations – Heart

**10. ANIMAL EXPERIMENTATION CD –Dowanloaded (07)**

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

**11. List of Reagent – Haematology (08)**

1.	R.B.C. Diluting Fluid	1000ml	2.	W.B.C. Diluting Fluid	1000 ml
3.	Leishman's Staining soln.	500 ml	4.	E D T H	900gm
5.	Hydrochloric Acid N/10 soln	1000 ml	6.	Hydrochloric Acid 35 soln	500 ml
7.	Spirit	2 Bottle	8.	Cotton Bundle	01 bundle

**. List of Reagent - For Biochemistry (60)**

Sr. No.	Name	Quantity as on 01/01/21	Expiry date
1.	Acetic Acid 1 % Soln	300 ml	-
2.	Acetic Acid 10 % Soln	400ml	-
3.	Acetic Acid 99.5%	500 ml	-
4.	Ammonium sulphate Soln	500 ml	-10/2024
5.	Ammonia Solution 25 %	500 ml	04/2022

6.	Benzidine	90 gm	-
7.	Acetic Acid 25%	1000ml-	
8.	Barfoed's Reagent	250ml	
9.	Barium Chloride	500gm	
10.	Benedict's Reagent	500 ml	07/2025
11.	Chlorophenol Red Soln.	450 ml	-
12.	Copper Sulphate Soln	300 ml	-
13.	Cupric Sulphate Solution	500 ml	08/2024
14.	Ferric Chloride Solution 10%	100 ml	12/2023
15.	Esbach's Reagent	125 ml	12/2022
16.	Fehling's Solution No. 1	1400 ml	04/2024
17.	Fehling's Solution No. 2	500 ml	06/2024
18.	Fouchet's Reagent 25 %	175 ml	12/2021
19.	Gower's Reagent	500 ml	-
20.	Formaldehyde Soln 37 %	1000 ml	08/2023
21.	Hydrochloric Acid N/10	1000 ml	09/2023
22.	Hydrogen Peroxide Soln	1400 ml	05/2022
23.	Iodine Soln N/10	500 ml	05/2022
24.	Hydrochloric Acid 35 %	400 ml	10/2023
25.	Mercuric Chloride Soln	100 ml	10/2021
26.	Lead Acetate Basic Soln	1000 ml	-
27.	Millon's Reagent Soln	500 ml	12/2023
28.	Mercuric Nitrate 0.01m Soln	1100 ml	08/2023
29.	Methylene Blue Soln	750 ml	02/2024
30.	Magnesium Sulphate 0.1 m Soln	1000 ml	02/2022
31.	Molish Reagent	100ml	
32.	Nitric Acid 69 %	500 ml	09/2023
33.	Ninhydrin Soln	525 ml	03/2022
34.	Phenol Red indicator Soln	125 ml	02/2024
35.	Nylander's Reagent	510 ml	01/2023
36.	Pheloro-glucinol 10 % Soln	100 ml	01/2023
37.	Phenolphthalein Soln	250 ml	03/2024
38.	Picric Acid	900 gm	09/2023
39.	Plumbum Acetate Soln	350 ml	-
40.	Potassium chloride 1m Soln	1000 ml	09/2021
41.	Potassium Ferrocyanide Soln	450 ml	-
42.	Potassium Ferrocyanide 98%	500g	
43.	Sulphur Powder 98 %	500 gm	11/2023
44.	Seliwanoff's Reagent	215 ml	05/2024
45.	Sulphosalicylic Acid 20% Soln	550ml	
46.	Sulphuric Acid 98 % Soln	500 ml	02/2024
47.	Sodium Acetate	500g	
48.	Sodium Hydroxide 5 % Soln	200 ml	-
49.	Sodium Hydroxide 6 % Soln	1000ml	
50.	Sodium Hydroxide 1 % Soln	400 ml	-
51.	Sodium Hydroxide 45 % Soln	500 ml	02/2026
52.	Sodium Hydroxide 10 % Soln	800 ml	02/2024
53.	Sodium Hydroxide 45 % Solution	500ml	
54.	Sodium Carbonate 10 % Soln	450 ml	-
55.	Sodium Carbonate 2 % Soln	400 ml	-
56.	Sodium Hypobromide Soln	350 ml	-
57.	Sodium Citrate Soln 3.8 %	1000 ml	05/2022
58.	Trichloroacetic Acid 20 %	500 ml	01/2022
59.	Sodium Nitroprusside Soln	400 ml	-
60.	Silver Nitrate (N/10)	500ml	

**13. LIST OF DEAD STOCK (Total-16)**

1.	Black Board	01	2.	Office table (Steel)	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.	Bucket	02
11.	Wooden Stool	25	12.	Dept. Physiology Stamp/Stamp Pad	01

13.	Bulb (Energy Sever)	12	14.	Tube Lights	10
15.	Duster	01	16.	Stapler	01

**SUMMARY AS ON 01/09/2021**

1.	Additional Items in Physiology	04	2.	Models	08
3.	Specimens	05	4.	Films Charts	58
5.	Scientist Photograph	10	6.	Histology Slides	51
7.	PPP	21 Topic	8.	Transparencies – Prepared Readymade	159 76
9.	Videos on Clinical Examinations	06	10.	Animal xperimentation CD	07
11.	Reagent Haematology	08	12.	Reagent Biochemistry	52
13.	Dead stock	16			

1. Number of Additional items available
  - 1) Physiology - 84 items
  - 2) Biochemistry- Scientist Photographs – 10
2. Teaching Material = 167
  - 1) CD = 07
  - 2) PPT = 21 Topic
  - 3) Video = 06
  - 4) Transparencies = Prepared 159, Readymade 76

HOD Signature  
Stamp