



# सै होमोपैथिक मेडिकल कॉलेज & नित्यानंद हॉस्पिटल

(Approved by C.C.H., New Delhi, Recog. by State Govt, of Maharashtra, Affiliated to M.U.H.S. Nasik.)

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Ref. No.: JMT / SHMC /

Date : / /

College Name	Sai Homoeopathy Medical College & Nityanand Hospital	
Department Name	Physiology including Biochemistry	
Area of Department: -	132.25sq. mt	
Faculty List		
Sr. No.	Name of Teacher	Designation
1	--	--
2	DR. SAVITA SAHANI	ASSOCIATE PROFESSOR
3	DR. AFNAN MAZGAOKAR	ASSISTANT PROFESSOR
4	DR. C.B. GANDHE	GUEST PROFESSOR

## Department Area

Sr. No.	Area	As Per MSR	College
	Total Area	90 sq.mt	132.25 sq.mt
1	Department Room	AVAILABLE	
2	Physiology Lab / Biochemistry Lab	AVAILABLE	
3	Museum and Demonstration Room	AVAILABLE	
4	Equipment as Specified in Schedule III MES 2024	AVAILABLE	

## Distribution of Lectures & Demonstration, Practical, Applied Physiology 1<sup>st</sup> Year A.Y.2024-25

Sr. No.	Name of the Staff	Lectures	Practical	Applied
1	Dr. Savita Sahani	229	219	
2	Dr. C.B.Gandhe	19	-----	-----
3	Dr.Afnan Mazgaokar	56	74	
	Total	304	293	

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OF CHARTS:-

NO.	NAME	QUANTITY
	CLOTTING MECHANISM	1
2	MUSCLE PHYSIOLOGY	3
3	HUMAN PHYSIOLOGY [CIRCULATION OF BLOOD]	1
4	HUMAN PHYSIOLOGY [STRUCTURE OF EAR]	1
5	MUSCLE PHYSIOLOGY	3
6	NEURO MUSCULAR JUCTION	2
7	STRUCTURE OF CELL	2
8	STRUCTURE OF HEART	1
9	FORMATION OF BILE FROM LIVER	1
10	OSMOLAR SUBSTANCE INTER CELLULAR & EXTRA CELLULAR	1
11	MUSCLUAR SKELETAL	1
12	OLFACTORY PATHWAY	1
13	RESPIRATORY SYSTEM UNIT	2
14	ENDOCRINE SYSTEM IN HUMAN	1
15	HUMAN BODY	1
16	MUSCLE PHYSIOLOGY	3
17	RESPIRATORY SYSTEM	2
18	HUMAN DIGESTIVE SYSTEM	2
19	VISUAL PATHWAY	2
20	STARLING HYPOTHESIS	1
21	STRUCTURE OF EAR	1
22	VISUAL PATHWAY	2
23	ACTION POTENTIAL	1
24	HUMAN PHYSIOLOGY [KIDNEY, SKIN, HAIR, EXCRETORY ORGAN]	2
25	CARDIAC CYCLE & HEART SOUND	1
26	IMMUNE	1
27	BILIRUBIN METABOLISM	1
28	CELLS OF THE IMMUNE SYSTEM	2
29	STRUCTURE OF SKIN	1
30	SKELETAL MUSCLE	1
31	PYRAMIDAL TRACTS	1
32	CELLS OF IMMUNE SYSTEM	2
33	STRUCTURE OF GENERALIZED CELL	2
34	FORMATION OF TISSUE FLUID	1
35	CHEMICAL REGULATION OF R.S	1
36	CELL STRUCTURE	2
37	STRUCTURE OF NEUROMUSCULAR JUCTION	2
38	CELLS OF IMMUNE SYSTEM	2
39	NEUROMUSCULAR JUCTION	2
40	HUMAN DIGESTIVE SYSTEM	2
41	STRUCTURE OF SKIN	1
42	COMPONENTS OF EAR	1
43	HORMONES SECRETION GLANDS & CELLS	1

	LYMPHATIC SYSTEM	1
	NERVOUS SYSTEM	2
	HEART	1
47	SKIN & HAIR	2
48	RESPIRATORY SYSTEM	1
49	STRUCTURE OF EYE	1
50	HEART BEATS	1
51	TEETH & GUMS	2
52	HUMAN BODY	1
53	GLYCOLYSIS	1
54	KREBS CYCLE	1
55	AMINO ACID & CLASSIFICATION	1
56	BALANCE DIET	1
57	PROTEIN METABOLISM	1
58	LIPID METABOLISM	1

**LIST OF MODELS:-**

SR.NO.	NAME	QUANTITY
1	EYE	1
2	TEETH	1
3	KIDNEY	1
4	SPLEEN	1
5	LIVER	1
6	STOMACH	1
7	TONGUE	1
8	HUMAN EXCRETORY SYSTEM	1
9	HUMAN EYE	1
10	HUMAN LIVER	1
11	HUMAN KIDNEY	1
12	HUMAN NECK WITH MUSCLE	1
13	HUMAN REPRODUCTIVE SYSTEM -MALE	1
14	HUMAN REPRODUCTIVE SYSTEM- FEMALE	1
15	HUMAN SKIN	1
16	HUMAN BODY	1

  
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**LIST OF DEPARTMENT BOOKS:-**

SR.NO	NAME OF BOOKS	AUTHOR	QUANTITY
1	TEXTBOOK OF BIOCHEMISTRY(6 <sup>TH</sup> EDITION)	A.V.S.S RAMA RAO	1
2	HANDBOOK OF HUMAN PHYSIOLOGY(7 <sup>TH</sup> EDITION)	VIDYA RATAN	1
3	HUMAN PHYSIOLOGY	Dr C.C chaterjee	2
4	FUNDAMENTAL OF BIOCHEMISTRY	Dr A.C Deb	1
5	PRACTICAL PHYSIOLOGY	Dr smt Vijaya and Dr joshi	1
6	PRICIPLE OF ANATOMY AND PHYSIOLOGY(12 <sup>TH</sup> EDITION)	J TORTORA BOYAN &H.DERICKSEN	1
7	TEXTBOOK OF MEDICAL PHYSIOLOGY(11 <sup>TH</sup> EDITON)	GUYTON &HALL	1
8	SAMSON WRIGHT APPLIED PHYSIOLOGY(13 <sup>TH</sup> EDITION)	CYRIL AERICNEIL & NORMAN JOEL	1
9	TEXTBOOK OF MEDICAL PHYSIOLOGY	SAMBULINGUM	1
10	TEXTBOOK OF MEDICAL PHYSIOLOGY(9 <sup>TH</sup> EDITION)	GUYTON & HALL	1
11	TEXTBOOK OF MEDICAL PHSIOLOGY	SUJIT K CHOUDHARI	1

**LIST OF GRAPHS:-**

SR.NO	GRAPHS NAMES	QUANTITY
1.	Effect of two successive stimuli (after relaxation phase)	1
2.	Compound action potential	1
3.	Effects of two successive stimuli (during contraction phases)	1
4.	Effect of vagus& descent Stimuli	1
5.	Oxygen dissociation curve	1
6.	Genesis of tetany (5 stimulus)	1
7.	Perfusion of isolated frog's heart & effect of ions	1
8.	Vagus escape	1
9.	Effect of nicotine on frog's heart	1
10.	Effect of vagusstanniusligalaternal on the frog heart	1
11.	Nontenizing property	1
12.	Effect of free loading	1
13.	Effect of acetycholine on frog heart	1
14.	Muscular fatigue	1
15.	Staircase phenoneman	1
16.	Starting 's law	1
17.	Effect of two successive stimuli (simple curve)	1
18.	Property of all & none law	1
19.	Effect of after loading	2
20.	Effect of adrenaline heart	1



HP LaserJet Pro MFP M128fw	Human Brain	1
	Mammary gland	1
23 Web Services	Thyroid gland & rib structure	1
24	Chamber of the ruminant stomach	1
25	Respiratory system	1
26	Lymph vascular system	1
27	Spiral nerve	1
28	Blood cells	1
29	Digestive system	1
30	Human eye	1
31	Nerve cell	1
32	Birth of baby	1
33	Human teeth	1
34	Human ear	1
35	Human ultrafiltration	1
36	Vestigial structure	1
37	Menstrual cycle	1
38	Excretory system	1
39	Circulatory system	1
40	Skeletal system	1
41	Human heart	1
42	Hip joint	1
43	Muscular system	1
44	Shoulder system	1
45	Foot & toes joint	1
46	Elbow joint	1
47	Wrist joint	1
48	Knee joint	1
49	Nervous system	1
50	Types of seeds	1

Go to the HP Connected Web site for more information and specific terms and conditions:

**LIST OF INSTRUMENTS**

NAME OF THE INSTRUMENTS	QUANTITY
MEDICAL MICROSCOPE	22 (WITH SPARE PIPETTES)
EQUIPMENT FOR ESR ESTIMATION / WESTERGRENN'S ESR ON STAND	2 (WITH SPARE PIPETTES)
HAEMATOCRIT TUBES	22 (WITH SPARE)
AUTO ANALYZER OR SEMI AUTO ANALYZER	1
HAEMOGLOBINOMETER SAHIL	22 (WITH SPARE)
HAEMOCYTOMETER	18
SPHYGMOMANOMETER	21
STETHOSCOPE	21
CLINICAL THERMOMETER (DIGITAL)	25
KNEE HAMMER	22
TUNING FORKS TO TEST HEARING (32 -10000 HZS)	1 SET

PLETHYSMOGRAPHS OR PNEUMOGRAPHY	5
ELECTROCARDIOGRAPHY (ECG MACHINE)	1
ELECTRONIC STOP WATCHES 1/10 SEC	4
GLASS DISTILLATION (DOUBLE) APPARATUS	1
CENTRIFUGE (MEDIUM SPEED)	2
COLORIMETER (PHOTO ELECTRIC)	2
PH METER ELECTRIC	2
COLOUR PERCEPTION LANTERN (EDRIDGE GREEN)	2
INCUBATOR	1
EDUCATIONAL CD, DVD, FILM, SLIDE, MODELS, WITH AUDIO VISUAL AIDS	AS REQUIRED
PERIMETER	2
SPIROMETER	2
TONOMETER	1
HANDGRIP DYNAMOMETER	1
BICYCLE ERGOMETER	1
ELECTRONIC / MONOPAN BALANCE	1
CENTRIFUGE	2
BALANCE, CHEMICAL /ORDINARY	2
WATER BATH	2
URINIMETER	22
HYDROMETER (0.7000 TO 1.00)	1
ALBUMINOMETER	10
GLUCOMETER	10
THERMOMETER	10
CALORIMETER	4
HOT AIR OVEN (ELECTRIC)	1
DOUBLE DISTILLATION APPARATUS GLASS	1
CENTRIFUGE, MEDIUM SPEED, ELECTRIC	2
GLASS WARE LIKE PIPETTE, BURETTES, WIRE GOUGE WITH ASBESTOS, CENTRE HOT PLATE, STOVE, SYRINGES, BURNERS, RUBBER TUBING STAND CLAMPS, FLASK ETC.	AS REQUIRED
PH METER	2
DOUBLE DEMONSTRATION EYEPIECE	1
POLYPROPYLENE SEPARATORY FUNNEL	4
GLASS SLIDES	50
STIMULATOR	1
LAB TUBES	25
PLETHYSMOGRAPH	3
TEST TUBE	25
COVER GLASS	20 BOX
CAPLARI TUBE	4 BOX
REVOLVING DRUM	2
LACTOMETER	3
FLASK (1000 ml)	2
SUCKING PIPETTE (1/10)	10
SUCKING PIPETTE (1/100)	10

OF CHEMICALS:-

S.NO	CHEMICALS		QUANTITY
1.	MERCURIC SULPHATE	500 ml	2
2.	WBC DILUTING FLUID	500 ml	2
3.	RBC DILUTING FLUID	500 ml	2
4.	LEISHMEIN STAIN	500 ml	1
5.	FELHINGS SOLUTION-A	200 ml	2
6.	FELHINGS SOLUTION-B	1000 ml	2
7.	IODINE SOLUTION	400 ml	2
8.	ALHA NAPHTHANOL	500 ml	2
9.	Na HYDROBROMIDE	250 ml	1
10.	Na ACETATE	200 ml	1
11.	Na NITRATE	200 ml	1
12.	BENEDICTS SOLUTION	500 ml	2
13.	NESSELER'S REAGENT	300ml	1
14.	MELLARIES REAGENT	500 ml	1
15.	Na PURSSIDE	500 ml	1
16.	SALIWAFREFRES REAGENT	100 ml	1
17.	AMMONIUM OXALATE	300 ml	1
18.	AMMONIUM HYDRATE	410 ml	1
19.	AMMONIUM SULPHATE	100 ml	1
20.	AMMONIUM PHOSPHATE POWER	250 gms	1
21.	LACTOSE POWDER	400 gms	1
22.	FRUCTOSE POWDER	300 gms	2
23.	SULPHUR POWDER	250 gms	1
24.	EGG ALBUMIN POWDER	400 gms	1
25.	STRACH POWDER	100 gms	1
26.	PHENYL HYDROCHLOXIDE POWDER	500 gms	1
27.	PICRIC ACID	400gms	1
28.	POTTASIAM FRIGG ACID	500gms	1
29.	METHYL RED	500gms	1
30.	CHOLOROPHENOL RED	100gms	1
31.	LEAD OXALATE SOLUTION	300gms	1
32.	FORMALDEHYDE	500gms	1
33.	FEERIC CHLORIDE	400ml	1
34.	BARIUM CHLORIDE	750ml	1
35.	IODION 0.1 Ncl 10%	500ml	1
36.	CALCIAL ACTETIC ACID	500gms	1
37.	NITRIC ACID	250gms	1
38.	PHENOPHTHALIN	250gms	1
39.	SILVER NITRATE	500gms	1
40.	NL 10 Hcl	100ml	1
41.	BENZIDINE POWDER	250gms	1
42.	METHYELENE BLUE	500ml	1
43.	AMMONIUM SOLUTION	500ml	1
44.	BARFOED REAGENT	500ml	2

	SULPHUR POWDER	-	1
	HYDROGEN PEROXIDE LIQUID	-	1
	ACETONE LIQUID	-	1
48	NESSELER'S REAGENT	-	1
49	POTASSIUM OXALATE	-	1
50	SODIUM NITRATE	-	1
51	SODIUM SULPHIDE FLAKES	-	1
52	NITRIC ACID 70%	-	1
53	BENZIDINE	-	1
54	HYDROGEN PEROXIDE	-	1
55	H <sub>2</sub> SO <sub>4</sub>	-	2
56	1-NAPHTHALOL	-	1
57	SODIUM SOLUTION	-	1
58	HEPARIN SOLUTION	-	1
59	SODIUM ACETATE 38%	-	1
60	0.1 NITRIDE SOLUTION	-	1
61	GLACIAL ACETIC ACID	-	1
62	FORCHETS FELDING SOLUTION	-	2
63	AMMONIUM OXALATE	-	1
64	PHOSPHATE POWDER	-	1
65	URASE POWDER	-	1
66	COPPER SULPHATE	-	1
67	SURGICAL SPIRIT	-	1
68	SODIUM BICARBONATE	-	1
69	CONCENTRATED NITRIC ACID REAGENT	-	1
70	SODIUM HYDROXIDE SOLUTION	-	2
71	LEAD ACETATE	500ml	1
72	HYPOBROMITE SOLUTION	500 ml	1
73	DILUTE FORMALIN	500 ml	1
74	SODIUM HYDROXIDE POWDER	400 gm	1
75	H <sub>2</sub> SO <sub>4</sub>	500 ml	1
76	MALTOSE	500 gm	1
77	SELIWANOFF'S REAGENT	500 ml	1
78	MOLISCH'S SOLUTION	500 ml	1
79	FEHLING, A&B	500 ml	2
80	POTASSIUM FERROUS	500 ml	1

  
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## D STOCK

Hb pipette

2. Gentian solution
3. Leishman's stain
4. Thermometer clinical and mercury
5. Hypodermic needles
6. Nessler's reagent
7. Phenolphthalein stain
8. Sodium hydroxide
9. Fehling's solution (B)
10. Sodium nitrate solution
11. Stethoscope
12. Urinary system chart
13. Urinary system model
14. Kidney model
15. Liver model
16. Teeth model

### MISCELLANEOUS:-

SR.NO	MATERIAL	QUALITY
1.	TOOLS	50
2.	FANS	5
3.	TUBELIGHT	12
4.	CUPBOARD	3
5.	PHOTO FRAME	2

  
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**DEPARTMENT OF HUMAN PHYSIOLOGY & BIOCHEMISTRY (Annexure 14)**

**Details of items of Equipment - NCH(MES) Regulations etc available as per Schedule**

**Regulations,**

S No	Items	Required	Available in number	Verified
<b>Space for teachers and supporting staff, demonstration room, laboratories, museum and departmental library-175 sq. mtr.</b>				
<b>1</b>	<b>For human experiments:</b>			
1)	Medical microscope with oil immersion	25	22	
2)	Equipment for Erythrocyte sedimentation rate estimation or westergren's pipette for Erythrocyte sedimentation rate on stand	25 (with spare pipettes)	2	
3)	Haematocrit tubes	35	22	
4)	Sahli's haemoglobinometer	35	22	
5)	Haemocytometer	25	25	
6)	Sphygmomanometer	25	18	
7)	Stethoscope	25	21	
8)	Clinical thermometer (digital or mercury)	25	25	
9)	Knee hammer	25	22	
10)	Tuning forks to test hearing (32-10000 hzs)	1 set	01	
11)	Electrocardiograph (ECG machine)	1	01	
12)	Electronic stop watches 1/10 sec.	04	04	
13)	Glass distillation (double) apparatus	01	01	
14)	Centrifuge	01	02	
15)	Colorimeter (photo electric)	02	04	
16)	Ph meter electric	02	02	
17)	Color perception lantern (edridge green)	01	02	
18)	Educational compact disc, digital video disc, films, slides, models with audio visual aids	As required	Available as per required	
19)	Perimeter	01	03	
20)	Spirometer	01	02	
21)	Tonometer	01	01	
22)	Handgrip dynamometer	01	01	
23	Bicycle ergometer	01	01	

2				Details of Teaching Faculty			
Teaching Staff							
		Designation		Name of faculty		Verified	
		Professor		-			
		Associate professor		Dr.Savita.K.Sahani			
		Assistant professor		Dr.Afnan Mazgaonkar			
Non-teaching Staff							
		Laboratory attendant					
		Laboratory technician					
		Multi- Tasking Staff					

3			BIOCHEMISTRY		Available	Verified
1	Electronic or monopan balance	01	01			
2	Centrifuge	01	01			
3	Balance, chemical or ordinary	01	01			
4	Water baths	01	02			
5	Urinometer	25	22			
6	Chemicals: (a) Iodine (b) Ammonium oxalate (c) Barium chloride (d) Silver nitrate (e) Sodium hydroxide (f) Mercuric sulphate (g) Salicylic acid	As required	Available as per required			
7	Hydrometer (0.700 to 1.00)	02	01			
8	Albuminometers	10	10			
9	Glucometer	10	10			
10	Thermometer	10	10			
11	Colorimeter	01	03			
12	Hot air oven 14"x14"x14" (electric)	01	01			
13	Glass ware like pipette, beakers, burettes, wire gouge with asbestos, center hot plate, stove, syringes, burners, rubber tubing stands clamps, flash etc.	As required	Available as per required			
14	Ph (Potential of hydrogen) meter	01	01			
15	Binocular research microscope	02	-			
16	Stethoscope: demonstration with multiple pieces	02	-			
17	Ophthalmoscope	01	-			
18	Otorhinolaryngoscope	01	-			
19	Revolving stools, metal	45	-			

  
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