Customised Charts

Size 20"x30" Laminated & Mounted Framed on Board

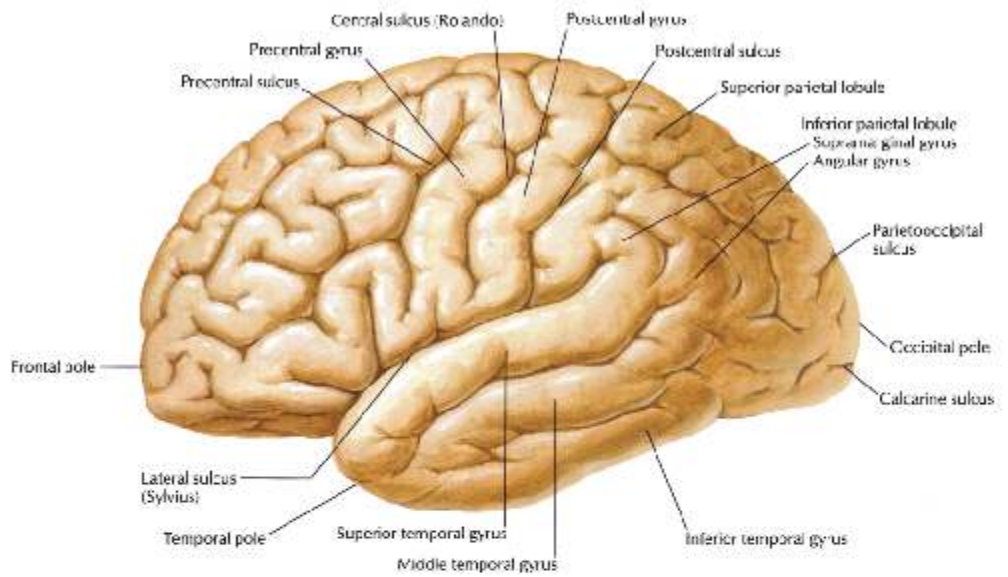
20”

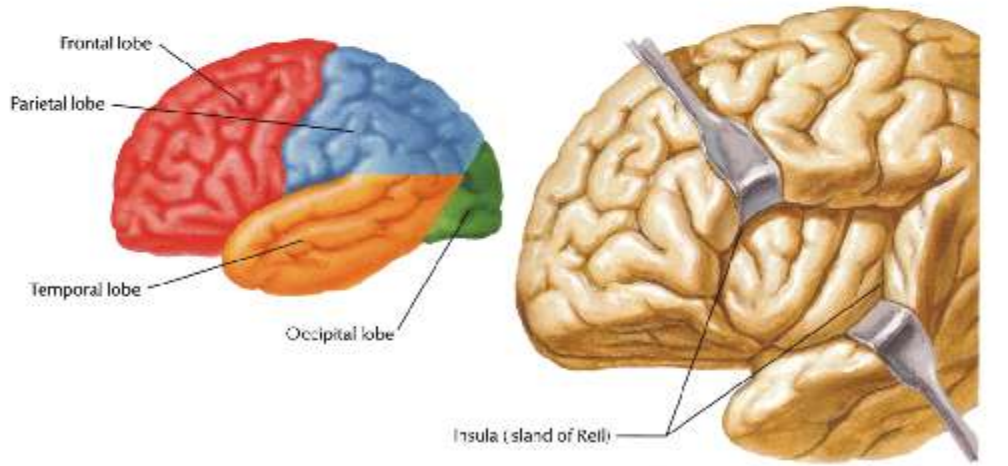
30”

4”

College Logo & Name

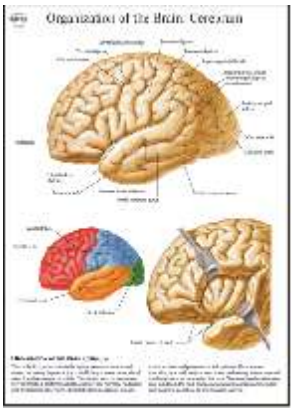
Organization of the Brain: Cerebrum





Organization of the Brain: Cerebrum

The cerebral cortex represents the highest center for sensory and motor processing. In general, the frontal lobe processes motor, visual, speech, and personality modalities. The parietal lobe processes sensory information; the temporal lobe, auditory and memory modalities; and the occipital lobe, vision. The cerebellum coordinates smooth motor activities and processes muscle position. The brainstem (medulla, pons, midbrain) conveys motor and sensory information and mediates important autonomic functions. The spinal cord receives sensory input from the body and conveys somatic and autonomic motor information to peripheral targets (muscles, viscera).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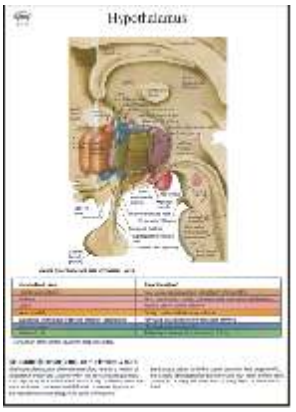
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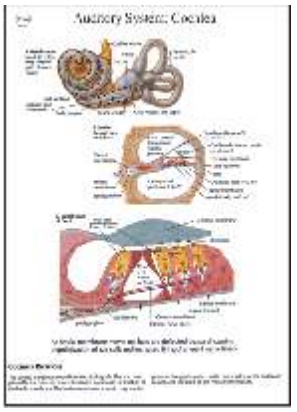
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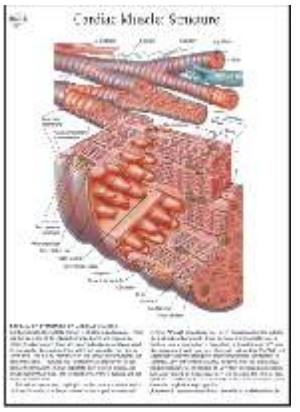
PH 54

Dbios

List No. 3

Physiology Charts & Models

w.e.f. Jan 15, 2017

Size : 20"x26" Laminated & Fitted with Plastic Strips
OR Size 20"x26" Laminated & Mounted Framed on Board

CELL PHYSIOLOGY
PH 1. The cell membrane
PH 2. Membrane transport-I
PH 3. Membrane transport-II
PH 4. Membrane transport-III
PH 5. Ionic Equilibria and Resting membrane Potential
PH 6. Action Potential
PH 7. Conduction Velocity
PH 8a. Signal Transduction-I
PH 8b. Signal Transduction-II

NEUROPHYSIOLOGY
PH 9. Organization of the brain: Cerebrum
PH 10. Organization of the brain: Cell Types
PH 11. Blood - brain barrier
PH 12. Synaptic transmission: Morphology of Synapses
PH 13. Synaptic transmission: Neuromuscular Junction
PH 14. Synaptic transmission: Visceral Efferent Endings
PH 15. Synaptic transmission: Inhibitory Mechanisms
PH 16. Synaptic transmission: Chemical Synaptic Transmission
PH 17. Synaptic transmission: Temporal and Spatial Summation
PH 18. Cerebrospinal Fluid (CSF): Brain Ventricles and CSF Composition
PH 19. Cerebrospinal fluid (CFT): Circulation of CSF
PH 20. Spinal cord: Ventral Rami
PH 21. Spinal cord: Membranes and Nerve Roots
PH 22. Peripheral nervous system
PH 23. Autonomic nervous system: Schema
PH 24. Autonomic nervous system: Cholinergic and Adrenergic Synapses
PH 25. Hypothalamus
PH 26. Limbic system
PH 27. The cerebral cortex
PH 28. Descending motor pathways
PH 29. Cerebellum: Afferent Pathways
PH 30. Cerebellum: Efferent Pathways
PH 31. Cutaneous sensory receptors
PH 32. Cutaneous receptors: Pacinian Corpuscle
PH 33. Proprioception and reflex pathways-I
PH 34. Proprioception and reflex pathways-II
PH 35. Sensory pathways-I
PH 36. Sensory pathways-II
PH 37. Sensory pathways-III
PH 38. Visual system: Receptors
PH 39. Visual system: Visual Pathway
PH 40. Auditory system: Cochlea
PH 41. Auditory system: Pathways
PH 42. Vestibular system: Receptors
PH 43. Vestibular system: Vestibulospinal Tracts
PH 44. Gustatory (taste) system: Receptors
PH 45. Gustatory (taste) system: Pathways
PH 46. Olfactory system: Receptors
PH 47. Olfactory system: Pathway

MUSCLE PHYSIOLOGY
PH 48. Skeletal muscle: Organization
PH 49. Skeletal muscle: Sarcoplasmic Reticulum
PH 50. Skeletal muscle: Excitation-Contraction Coupling-I
PH 51. Skeletal muscle: Excitation-Contraction Coupling-II
PH 52. Skeletal muscle: Excitation-Contraction Coupling-III
PH 53. Skeletal muscle: Length-Tension Relationship
PH 54. Cardiac muscle: Structure
PH 55. Smooth muscle: Excitation-Contraction Coupling-I
PH 56. Smooth muscle: Excitation-Contraction Coupling-II

CARDIOVASCULAR PHYSIOLOGY
PH 57. Overview of the Cardiovascular system
PH 58. Body Fluid Compartments
PH 59. Structure of the Heart
PH 60. Conduction System of the Heart
PH 61. Electrical Activity of the Heart
PH 62. Electrocardiogram-I
PH 63. Electrocardiogram-II
PH 64. Electrocardiogram-III
PH 65. Cardiac Cycle
PH 66. Cardiac Output: Pressure-Volume Loop
PH 67. Cardiac Output: Function Curves
PH 68. Coronary circulation
PH 69. Hemodynamics
PH 70. Arterial Pressure
PH 71. Control of arteriolar tone
PH 72. Microcirculation
PH 73. Circulation to special regions
PH 74. Monitoring of Blood pressure
PH 75. Short-Term Regulation of Blood Pressure
PH 76. Long-Term Regulation of Blood Pressure
PH 77. Response of Exercise
PH 78. Fetal circulation

RESPIRATORY PHYSIOLOGY
PH 79. Lungs
PH 80. Airway structure: Trachea and Major Bronchi

Physiology Charts

Dbios

Size : 20"x26" Laminated & Fitted with Plastic Strips
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PH 81. Airway Structure: Intrapulmonary Airways
PH 82. Airway Structure: Epithelium
PH 83. Respiratory muscles
PH 84. Lung Volumes
PH 85. Mechanics of respiration: Forces during Quiet Breathing
PH 86. Mechanics of respiration: Elastic Properties-I
PH 87. Mechanics of respiration: Elastic Properties-II
PH 88. Mechanics of respiration: Surface Forces
PH 89. Mechanics of respiration: Airway Flow
PH 90. Mechanics of respiration: Flow-Volume
PH 91. Intrapulmonary Circulation
PH 92. The alveolar capillary unit
PH 93. Pulmonary circulation
PH 94. Ventilation / perfusion
PH 95. Pulmonary Vascular Resistance
PH 96. Surfactant Effects
PH 97. O_2 and co_2 exchange
PH 98. O_2 and CO_2 exchange and transport
PH 99. O_2/CO_2 exchange
PH 100. Control of respiration
PH 101. Role of the lungs in Acid-Base Balance
PH 102. Response to exercise
PH 103. Obstructive lung disease-I
PH 104. Obstructive lung disease-II
PH 105. Restrictive lung Disease
PH 106. Pulmonary Function Testing-I
PH 107. Pulmonary Function Testing-II

RENAL PHYSIOLOGY

PH 108. Anatomy of the kidney
PH 109. Anatomy of the kidney: The Nephron
PH 110. Glomerular Structure
PH 111. Glomerular Filtration
PH 112. Renal Clearance
PH 113. Na^+ reabsorption
PH 114. ADH Secretion and Action
PH 115. Urine Concentration
PH 116. Urine Dilution
PH 117. Renin - angiotensin - aldosterone system
PH 118. Response to increased ECF
PH 119. Response to Decreased ECF
PH 120. Potassium excretion
PH 121. Calcium and phosphate
PH 122. Renal HCO_3^- Reabsorption
PH 123. Renal Production of New HCO_3

GASTROINTESTINAL PHYSIOLOGY

PH 124. Esophagus
PH 125. Gastroesophageal Junction
PH 126. Lower Esophageal Sphincter
PH 127. Enteric Nervous System
PH 128. Autonomic Innervation-I
PH 129. Autonomic Innervation-II
PH 130. Autonomic and Enteric Integration
PH 131. Motility
PH 132. Major GI Hormones
PH 133. Structure of Stomach
PH 134. Appetite and Hunger
PH 135. Gastric Motility
PH 136. Gastric Digestion
PH 137. Gastric Secretion-I
PH 138. Gastric Secretion-II
PH 139. Gastric Secretion-III
PH 140. Small Intestine Structure-I
PH 141. Small Intestine Structure-II
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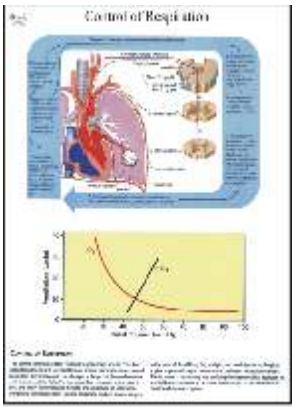
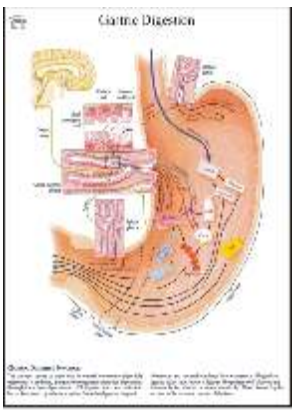
PH 143. Small Intestine Motility
PH 144. Large Intestine Structure
PH 145. Rectum and Anal Canal
PH 146. Colonic Motility
PH 147. Defecation
PH 148. Salivary Gland Structure
PH 149. Salivary Gland Secretion
PH 150. Pancreas Structure
PH 151. Pancreas Secretion
PH 152. Liver Structure
PH 153. Liver Ultra structure
PH 154. Intrahepatic Biliary System
PH 155. Liver Function
PH 156. Bilirubin Excretion
PH 157. Gallbladder Structure and Function
PH 158. Overview of GI Tract Fluid and Electrolyte Transport
PH 159. Digestion of Protein
PH 160. Digestion of Carbohydrates
PH 161. Digestion of Fat
PH 162. Absorption of Essential Elements and Vitamins

ENDOCRINE PHYSIOLOGY

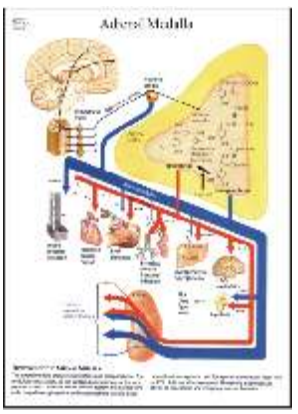
PH 163. Overview of Hormone Action
PH 164. Regulation of Hormone Secretion
PH 165. Hypothalamus and Pituitary
PH 166. Anterior Pituitary
PH 167. Posterior Pituitary: Oxytocin
PH 168. Posterior Pituitary: ADH
PH 169. Growth Hormone
PH 170. Thyroid Gland: Structure
PH 171. Thyroid Gland: Function
PH 172. Thyroid Gland: Hormone Action
PH 173. Adrenal Gland: Structure
PH 174. Adrenal Gland: Histology
PH 175. Adrenal Cortical Hormones
PH 176. Cortisol
PH 177. Adrenal Androgens
PH 178. Aldosterone
PH 179. Adrenal Medulla
PH 180. Endocrine Pancreas
PH 181. Insulin Secretion
PH 182. Actions of Insulin
PH 183. Actions of Glucagon
PH 184. Parathyroid Gland
PH 185. Gonad and Genital Duct Formation
PH 186. Development of the External Genitalia
PH 187. Puberty
PH 188. Testes
PH 189. The Menstrual Cycle
PH 190. Hormonal Regulation of the Menstrual Cycle
PH 191. Prolactin



PH 100



PH 136



PH 179

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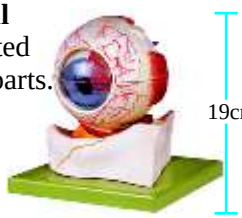
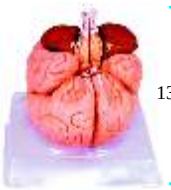
Dbios

Physiology Models

IMP 314 Eyeball
Separated into 7 parts.



IMP 328 Brain.



IMP 317 Anatomical Ear
Separated into 6 parts.

IMP 330B Half Head, Brain & Neck.

IMP 4328F
Human Skull with Brain 8 parts
Life Size

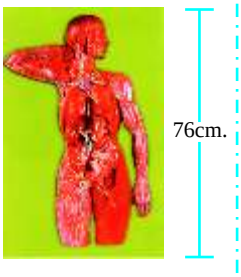
IMP 331B Muscular Head with Brain.

IMP 326 Interior model of Mouth, Nose, Pharynx and Larynx with Blood Vessels.

IMP 313 Anatomical Heart Model.

IMP 304 Larynx with Tongue
This model consists of 5 parts.

IMP 311 Lymphatic System.



IMP 309C Digestive System

IMP 310 Circulatory System

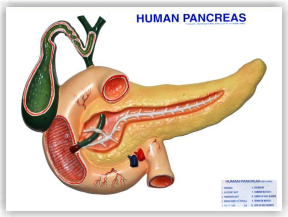
IMP 322 Nervous System.

AM 34 Human Lungs

AM 41 Human Stomach

AM 47 Duct system with Gallstones

AM 40 Human Pancreas

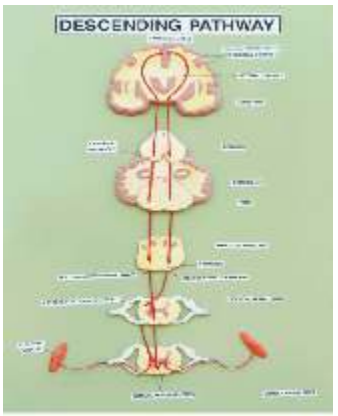


Physiology Models

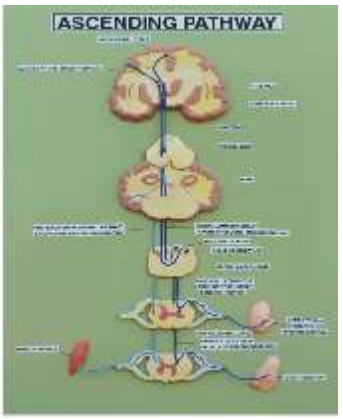
Dbios

AM 28
Nasal Cavity& Pharynx

AM 10B
Descending Pathway



AM 10A
Ascending Pathway



AM 9A Reflex Arc

AM-15 **Rs. 7000/-**
Spinal cord with spinal nerve

AM 23 Tonsils

AM 38
Liver Duodenum & Pancreas

IMP 330A
Median Section of Head.

AM 37
Large with gall Bladder

AM 30
Larynx deep side view

AM 10 The Cerebellum

AM-74
Structure of Bone

IMP 333B Kidney Nephron Corpuscle.

IMP 334 Median Section of Male Pelvis.

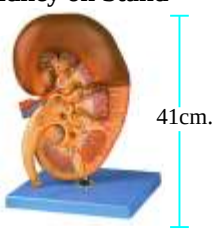
IMP 336 Median Section of Female Pelvis.
Separated into 2 parts.

IMP 332A Pancreas Spleen , Duodenum.

IMP 337A Human Excretory System.

IMP 282 MICRO anatomy Liver

IMP 333C
Kidney on Stand



Dbios

Physiology Models

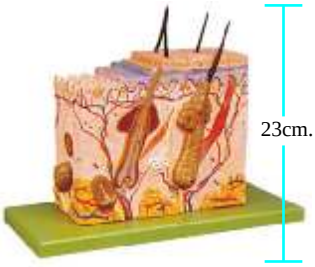
IMP 285 MICROanatomy Eye

IMP 286 MICRO anatomy Digestive System

IMP 284 MICRO anatomy Kidney

IMP287 MICRO anatomy Artery and Vein

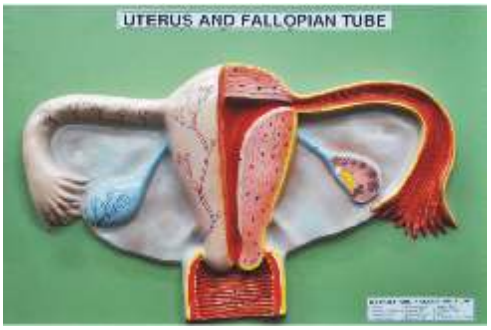
IMP 352 Block Skin



AM 70C IMP- Ovary Model

AM 68C Female Rep. System

AM 68 Uterus and Fallopian Tube



AM 60 Urinary Bladder

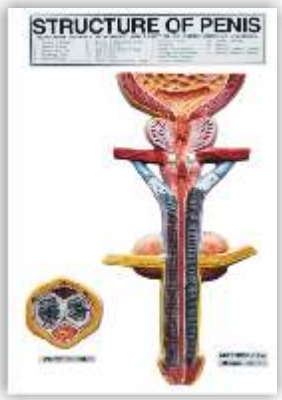
AM 64A Hernia

AM 75 Structure of Hair

AM 79 Uterus in section showing sperm & ovum in process of fertilization

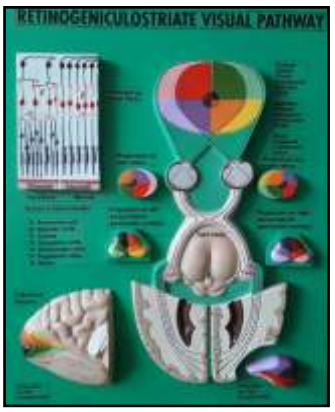
AM 70 Structure of the Breast

AM 63 Structure of penis

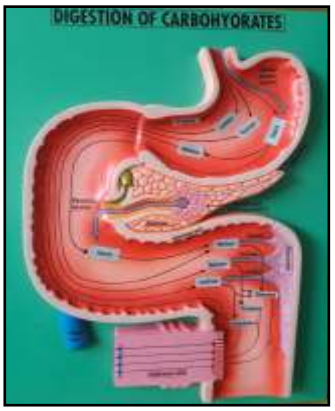


AM 72 The Skin

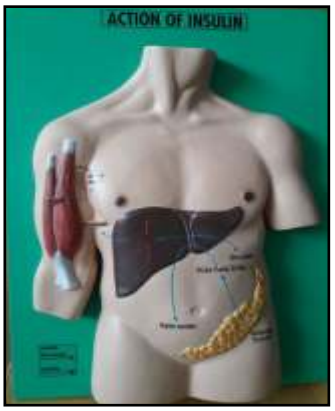
Physiology Models



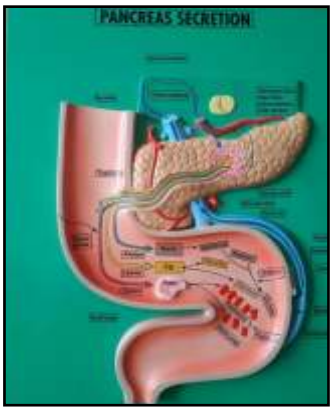
RETINOGENICULOSTRIATE VISUAL PATHWAY
PHM 1



DIGESTION OF CARBOHYDRATES
PHM 2

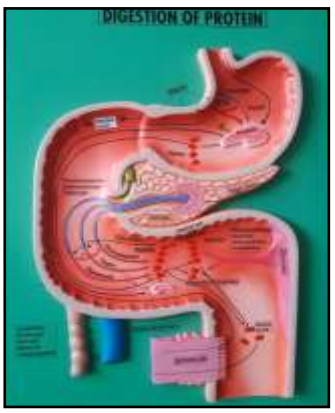


ACTION OF INSULIN
PHM 3

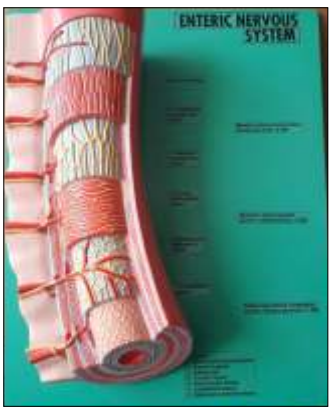


PANCREAS SECRETION
PHM 4

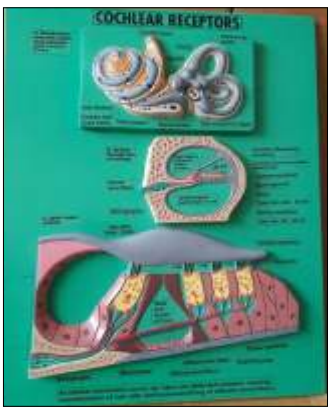
TASTE RECEPTORS
PHM 5



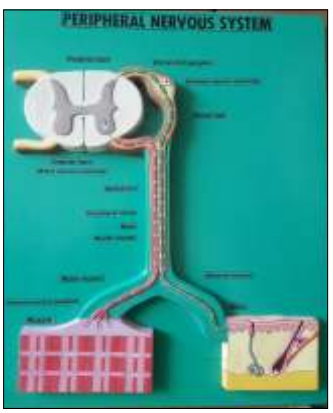
DIGESTION OF PROTEIN
PHM 6



ENTERIC NERVOUS SYSTEM
PHM 7



COCHLEAR RECEPTORS
PHM 8



PERIPHERAL NERVOUS SYSTEM
PHM 9

ESOPHAGUS
PHM 10

OLFACTORY RECEPTORS
PHM 11

Psychology Charts

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DPsy1 Milestones in the History of Psychology
DPsy2 Research Methods in Psychology
DPsy3 The Neuron and the Synapse
DPsy4 The Resting and Action Potential
DPsy5 Structure and Functions of Human Brain
DPsy6 Major Regions of Cerebral Cortex
DPsy7 Central and Peripheral Nervous System
DPsy8 Structure and Functions of Endocrine System
DPsy9 Sensory Receptor Cells
DPsy10 Parts of the Eye and Visual Pathways
DPsy11 Visual Processing in the Split Brain
DPsy12 The Auditory System
DPsy13 The Olfactory Sense
DPsy14 The Receptors for Taste
Dpsy15 Memory Model
(Craik and Lockhart's Levels, Atkinson and Shiffrin's, Baddeley's Working Memory Model)
DPsy18 Involvement of Brain in different aspects of Long Term Memory
DPsy19 Role of Autonomic Nervous System in Emotional Arousal and Calming the Body
DPsy20 Role of Cerebral Hemisphere in Emotions and Psychological Disorder
DPsy21 James-Lange Theory of Emotion
DPsy22 Cannon-Bard Theory of Emotion
DPsy23 Schachter and Singer's Two Factor Theory of Emotion
DPsy24 Approaches to Personality Psychology
DPsy25 Cognitive Therapy Techniques
DPsy26 Comparisons in Psychotherapies
DPsy27 Famous Psychological Experiment
DPsy28 Piaget's Stages of Cognitive Development
DPsy29 Erikson's Stages of Psychosocial Development
DPsy30 Kohalberg's Stages of Moral Development
DPsy31 The Big Five Personality Traits
DPsy32 Raymond Cattelll's 16 PF
DPsy33 Howard Gardener's Multiple Intelligence
DPsy34 Myers Briggs Chart
DPsy35 Enneagram types
DPsy36 DSM 5 List of Mental Disorders
DPsy37 DSM 5 List of Personality Disorders
DPsy38 The Neural Basis of Speech : One Model
DPsy39 Reflexes in Newborn
DPsy40 Milestones in Locomotor Development
DPsy41 Language Development : some Milestones
DPsy42 Role of Cognitive Appraisal in Stress
DPsy43 Optimists and pessimists : Contrasting strategies for Coping with Stress
DPsy44 Cognitive Mechanisms in Depression
DPsy45 Bronfenbrenner's Ecological System Theory
DPsy46 Overview of Theories of Motivation
DPsy47 Maslow's Hierarchy of Needs
DPsy48 The Cognitive Model
DPsy49 Psychology of Colours
DPsy50 Secrets of Happiness
DPsy51 Stress Management

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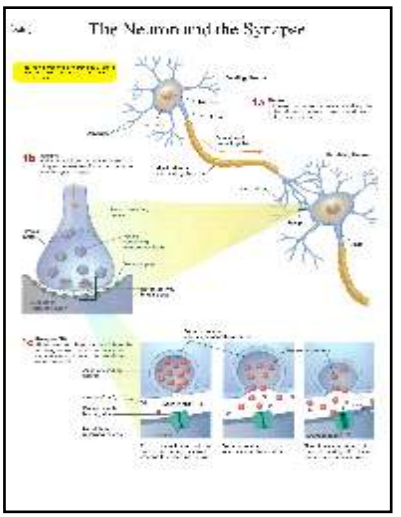
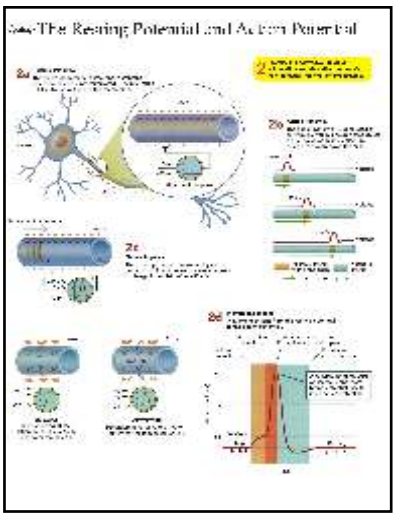
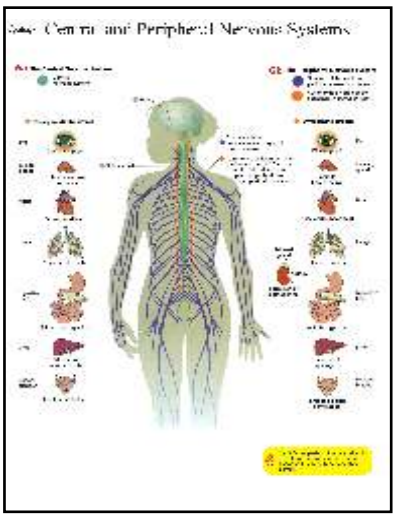


DPsy-3



DPsy-4



DPsy-7

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3	Electrodes, xblocks, burrette clamps, enamel bowls brass Uprights, with coarse and fine adjustments basin, spirit Lamps, cooper wire (double cotton covered) Kymograph Paper etc.	As required		
	(b) MAMMALIAN EXPERIMENTS			
4	Large extension kymographs-Brodie-Starling complete	01		
5	Operation table	1		
6	Volume recorders	8		
7	Dale's bath for internal organ	30		
8	Isolated Organs. Bath for students complete with Complete with liver etc.	40		
9	Animal Weighing Machine, for small and big animals(for each)	1		
10	Mary's Tambour	40		
11	Venus and arterial canula (different sizes) (each)	40		
12	Smoking outfit, with fume cupboard	1		
13	Varnishing outfit, for long and short papers	1		
14	Anaesthesia boxex	5		
	(c) HUMAN AND OTHER EXPERIMENTS :			
15	Microscopes, Oil immersion	50+8		
16	Demonstrations eye piece	4		
17	Double Demonstration eye piece	4		
18	Stage incubator	1		
19	Wastergen's Pipettes for E.S.R. On Stand (with space pipettes)	40		
20	Perimeter Priestly Smith S/LP.984 B & T	10		
21	Haemogiobinometer, Sahil or hellige (with spaces)	40		
22	Haemocytometers	40		
23	Sphygmomanometer	15		
24	Stethoscopes	20		
25	Stethoscopes, Demonstration with Multipleear pieces	4		
26	Venus Pressure apparatus	4		
27	Gas analysis apparatus, Haldane's students type	1		
28	Van Slyko's apparatus manometric	2		
29	Douglas bag, complete	6		
30	Basal metabolism apparatusa	1		
31	Erogograph Mosse's	10		
32	Clinical thermometer	30		
33	Compas	10		
34	Thermanaesthesiometer	5		
35	Algometer	5		
36	Apparatus for passive movement	5		
37	Knee hammer	15		
38	Stethograph	15		
39	Bicycle ergometer	6		
40	Olfactometer	1		
41	Opthalmoscope	2		
42	Schematic eye	4		
43	Phakoscope	2		
44	Perimeters, with charts	5		
45	Colour perception lantern Edridge Green	1		
46	Maddox rod	1		
47	Newtons colour wheel	1		
48	Tuning forks to test hearing 32-10,000 cps (sets)	4		
49	Dynamometer	2		
50	Otorhinolaryngoscope	5		
51	Steriliser Electric	2		
52	Instrument trolley	1		
53	Stop watches	10		
	(d) GENERAL			
54	Physiograph, single channel, with accessories	8		
55	Centrifufe, high speed with technometer etc.	1		
56	Calorimeter, photo-electric	1		
57	pH meter, electric	1		
58	Oxygen Cylinder with trolley	6		
59	Electronic stimulator	1		
60	Water distillation still, with spare heating elements	1		
61	All glass distillation apparatus double stage	1		
62	Voltage stabilizer	3		
63	Stepdown transformers	1		

Physiology Pioneers

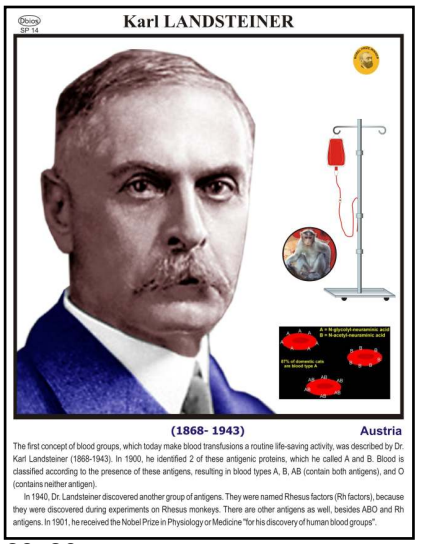
Dbios

SCIENTIST PHOTOS

Size : 20"X26" Laminated and Framed on Board

SPH 01	CHARLES SHERINGTON (1857 – 1952)
SPH 02	WILLIAM HARVEY (1578 – 1657)
SPH 03	STEPHEN HALES (1677 – 1761)
SPH 04	AVTAR SINGH PAINTAL (1925 – 2004)
SPH 05	Anton VAN LEEUWENHOEK (1632 – 1723)
SPH 06	IVAN PAVLOV (1849 – 1936)
SPH 07	CLAUDE BERNARD (1813 – 1878)
SPH 08	WALTER B. CANNON (1871 – 1945)
SPH 09	KARL LANDSTEINER (1868 – 1943)
SPH 10	WILLEM EINTHOVEN (1860 – 1927)
SPH 11	FREDERICK GRANT BANTING (1891 – 1941)
SPH 12	HERMANN VON HELMHOLTZ (1821 – 1894)
SPH 13	WERNER FORSSMANN (1904 – 1979)
SPH 15	John Newport Langley
SPH 16	Philip Showalter Hench
SPH 17	Sir James Young Simpson
SPH 18	Thomas Renton Elliott
SPH 19	Ulf von Euler
SPH 20	Adolf Eugen Fick
SPH 21	Andrew Fielding Huxley
SPH 22	Arthur Clifton Guyton
SPH 23	Eric Richard Kandel
SPH 24	Georg Von Bekesy
SPH 25	Joseph Erlanger

SPH 26	Linda Brown Buck
SPH 27	Robert Barany
SPH 28	William Maddock Bayliss
SPH 29	Yoshinori Ohsumi
SP 9	Charles best
SP 10	Sir Frederick Grant Banting



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