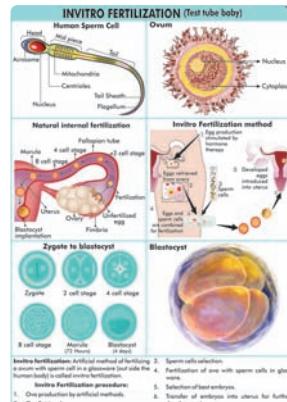
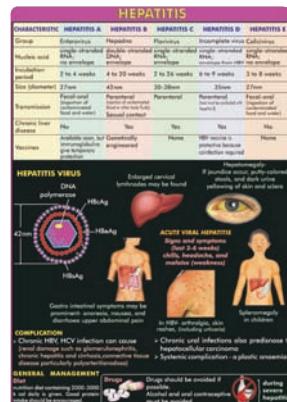
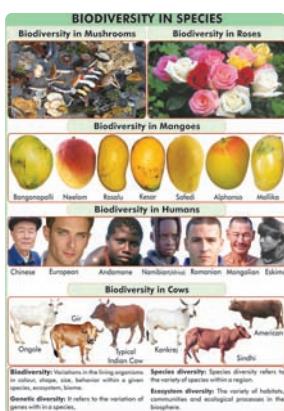
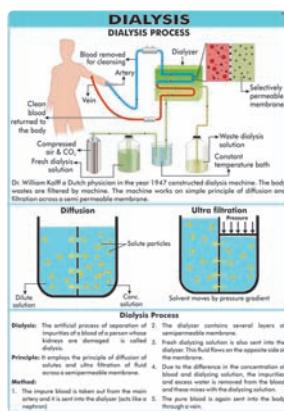


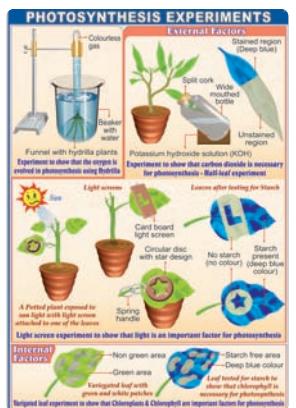
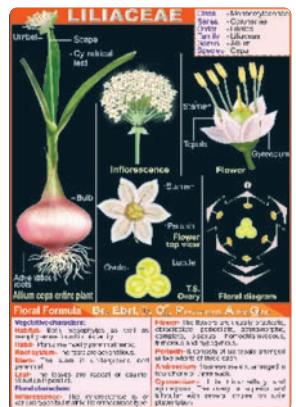
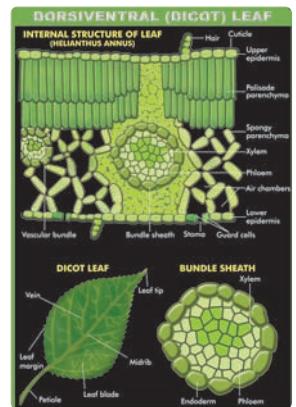
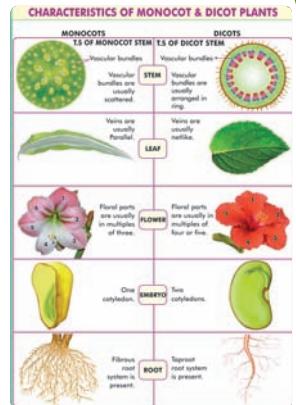
Code No.	TITLE	Code No.	TITLE	
HUMAN ANATOMY			GENERAL SCIENCE	
HA-1	Human Autonomic Nervous System	Bi-18	Solar System	
HA-2	Human Blood Groups	Bi-20	Solar and Lunar Eclipse	
HA-3	Human Blood Circulation	Bi-27	Structure of Earth	
HA-4	Human Central and Peripheral Nervous System (Spinal Cord and Brain)	Bi-28	Structure of Sun	
HA-5	Human Circulatory System (Arterial and Venous System)	Bi-15	Marasmus and Kwashiorkor	
HA-6	Components of Human Blood	Bi-23	HIV AIDS The mode of HIV/Aids transmission, doesn't spread and prevention	
HA-7	Human Digestive System	Bi-26	Hazards of Smoking	
HA-8	Human Ear	Bi-29	Hepatitis	
HA-9	Human Eye	BIOLOGY		
HA-10	Human Endocrine Glands	B-18	Plant Kingdom Classification	
HA-11	Human Excretory System & Structure of Nephron	Bi-1	Bacteria - Ultra Structure and Kinds	
HA-12	Human Joints and Limbs	Bi-2	Cell Organelles (Structure of Chloroplast, Mitochondria, Plasma Membrane, Nucleus, Endoplasmic Reticulum, Golgi complex)	
HA-13	Human Muscular System	Bi-3	Chromosome Structure and Types	
HA-14	Neuron and Reflex Arc	Bi-4	Mitosis	
HA-15	Human Reproductive System Male	Bi-5	Meiosis	
HA-16	Human Reproductive System Female	Bi-6	DNA Double Helix	
HA-17	Human Respiratory System	Bi-7	Animal Cell - Ultra Structure	
HA-18	Human Skeleton	Bi-8	Plant Cell - Ultra Structure	
HA-19	Structure of Human Heart and Valves	Bi-9	Virus - Bacteriophage and Life Cycle	
HA-20	Structure of Human Skin	Bi-10	Sexual Reproduction in Plants (Parts of a Flower, Pollination & Fertilization)	
HA-21	Human Teeth and Tongue	Bi-11	Vegetative Propagation in Plants (Stem Cutting, Layering & Grafting)	
HA-22	Vestigial Organs	Bi-12	Balanced Diet	
HA-23	Homologous and Analogues Organs	Bi-13	Central Dogma	
HA-24	Human Embryo Development -I	Bi-14	Genetic Code	
HA-25	Human Embryo Development -II	Bi-16	Types of RNA	
HA-26	Human Lungs	Bi-17	Vitamins & Rich Food in Vitamins and its Deficiency	
HA-27	Human Kidney	Bi-19	Homologous & Analogous Organs (Plants)	
HA-28	Human Lymphatic System	Bi-21	Soil Erosion	
HA-29	Human Nose	Bi-22	Evolution of Man	
HA-30	Human Morphology	Bi-24	Cross Pollination	
HA-31	Human Brain	Bi-25	Self Pollination and Fertilisation	
HA-32	Human Stomach	Bi-31	Chloroplast	
HA-33	Human Liver and Pancreas	Bi-32	Cow Digestive System	
HA-34	Human Intestine- Large	Bi-33	Embryological Evidences	
HA-35	Human Intestine- Small	Bi-34	Insectivorous Plants	
HA-36	Human Body			
HA-40	Invitro Fertilization <small>New</small>			

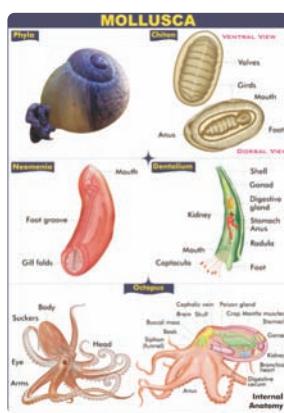
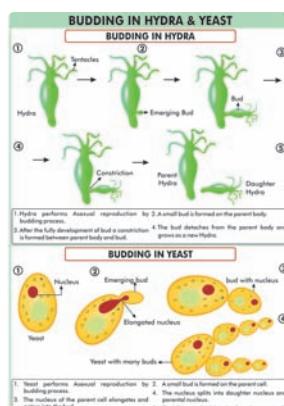
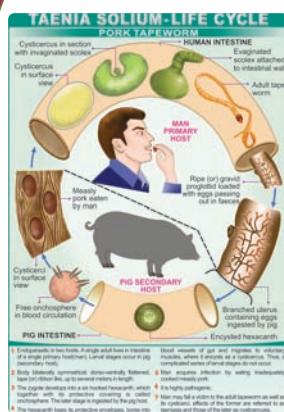




Code No.	TITLE	Code No.	TITLE
Bi-35	Medicinal Plants-I	EC-9	Food Chain - Grass Land
Bi-36	Medicinal Plants-II	EC-10	Pond Eco System
Bi-42	Plant & Its Parts <small>New</small>	EC-11	Sulphur Cycle
Bi-43	Hierarchy of Classification <small>New</small>	EC-12	Phosphorous Cycle
Bi-44	Dialysis <small>New</small>	EC-13	Environmental Pollution
Bi-45	Reverse Osmosis Filter <small>New</small>	EC-14	Sound Pollution
Z-2	Plasmodium Life Cycle in Human	EC-15	Air Pollution
Z-3	Plasmodium Life Cycle in Mosquito	EC-16	Water Pollution
Z-18	Butterfly - Life History and Mouth Parts	EC-17	Food Pyramids
Z-19	Housefly - Life History and Mouth Parts	EC-18	Marine Eco System with zones
Z-20	Mosquito - Life History and Mouth Parts	EC-19	Biodiversity in Species <small>New</small>
Z-21	Silkworm - Life History	EC-20	Biodiversity in Eco system <small>New</small>
Z-44	Animal Kingdom Classification	EC-21	Green House Effect & Global Warming <small>New</small>
Z-60	Frog Life Cycle	EC-22	Geological Time Scale <small>New</small>
Z-63	Harmful and Useful Insects	BOTANY	
MB-6	Types of Bacteria	ALGAE	
MB-7	Types of Virus	B-1	Spirogyra Life Cycle
MB-12	HIV - Human Immuno Deficiency Virus (Structure and Life cycle)	B-18	Plant Kingdom Classification
MB-13	Prokaryotic & Eukaryotic Cells	B-65	Ulothrix Life Cycle
BT-13	Gene Cloning (Process of gene cloning in bacteria-Recombinant DNA)	B-64	Vaucheria Life Cycle
BT-22	Polymerase Chain Reaction (PCR)	B-66	Thallus Organisation of Algae
GT-3	Crossing Over	B-70	Chlamydomonas (Structure & Asexual Reproduction) (Haplontic Life Cycle)
GT-6	Linkage	B-71	Chlamydomonas Reproduction - I (Isogamous & Anisogamos Sexual Reproduction)
GT-13	Pedigree Analysis (Illustrates pedigree involving phenotype controlled by a recessive allele and a dominant allele and symbols used in human pedigree analysis)	B-72	Chlamydomonas Reproduction - II (Oogamous Sexual Reproduction and Zygospore Germination)
GT-14	Sex Linked Inheritance (Hemophilia)	B-73	Chara
GT-17	Pedigree Analysis of Human Traits (Widows Peak, Hair Line, Thumb, Dimple, Earlobe, Little Finger, Rolling Tongue)	B-74	Chara Reproduction
ENVIRONMENTAL SCIENCE		B-75	Volvox (Haplontic Life Cycle)
EC-1	Biosphere	B-76	Oedogonium
EC-2	Carbon Cycle	B-77	Oedogonium Reproduction
EC-3	Nitrogen Cycle	B-78	Ectocarpus
EC-4	Oxygen Cycle	B-79	Ectocarpus Life Cycle
EC-5	Water Cycle	MB-43	Whittakers Classification (Five Kingdom System by R.H. Whittaker)
EC-6	Food Web	FUNGI	
EC-7	Food Chain - Terrestrial and Aquatic	B-2	Rhizopus Life Cycle
EC-8	Food Chain - Aquatic	MB-35	Mucor Life Cycle
		MB-45	Aspergillus Life Cycle
		MB-48	Penicillium Life Cycle
		MB-44	Agaricus Life Cycle (Mushroom)

Code No.	TITLE	Code No.	TITLE
	BRYOPHYTA		ANATOMY
B-3	Funeria Life Cycle	B-27	Dicot Root (<i>Helianthus Annuus</i>)
B-59	Funeria Gametophore T.S. Stem and Leaf	B-28	Dicot Stem (<i>Helianthus Annuus</i>)
B-89	Bryophyta Plants - Examples	B-29	Dorsi Ventral (Dicot) Leaf (<i>Helianthus Annuus</i>)
	PTERIDOPHYTA	B-30	Isobilateral (Monocot) Leaf (<i>Zea Mays</i>)
B-4	Pteris Life Cycle	B-31	Monocot Root (<i>Zea Mays</i>)
B-90	Pteridophyta Plants - Examples	B-32	Monocot Stem (<i>Zea Mays</i>)
	GYMNOSPERMS	B-33	Secondary growth of Dicot Stem
B-5	Cycas Life Cycle	B-84	Secondary growth of Dicot Root
B-60	Cycas Corolloid Root and Stem	B-91	Monocot & Dicot Plants <small>New</small>
B-61	Cycas Leaf Let and Rachis		PHYSIOLOGY
	ANGIOSPERMS MORPHOLOGY	B-34	Calvin Cycle (C_3 Dark Reaction) (Carbon Dioxide fixation/ Carbon assimilation)
B-6	Root Modifications	B-35	Glycolysis (EMP Pathway) and Electron Transport System
B-7	Stem Modifications Aerial	B-36	Hatch and Slack Pathway (C_4 Dicarboxylic Acid Pathway)
B-8	Stem Modification Sub Aerial and Underground	B-37	Kreb's Cycle (TCA/Citric Acid Cycle)
B-9	Leaf Phyllotaxy and Heterophylly	B-38	Light Reaction (Cyclic and Non-Cyclic Photophosphorylation)
B-11	Leaf Modifications	B-68	Osmosis, Plasmolysis, Diffusion
B-12	Flower and Aestivation	B-82	Photorespiration (C_2 Cycle)
B-13	Androecium and Gynoecium	B-85	Photosynthesis
B-14	Fruits Types (False and True fruits)		CYTOTOLOGY
B-15	Dry Fruits (Dehiscent and Indehiscent)	Bi-3	Chromosome Structure and Types
B-16	Inflorescence - Racemose	Bi-4	Mitosis
B-17	Inflorescence - Cymose and Special	Bi-5	Meiosis
B-21	Leaf Types and Venation	Bi-6	DNA Double Helix
B-67	Life Cycle of an Angiosperm	Bi-8	Ultra Structure of Plant Cell
	EMBRYOLOGY		PLANTS - HUMAN WELFARE
Bi-10	Sexual Reproduction in Plants	B-39	Tissue Culture
Bi-11	Vegetative Propagation in Plants		TAXONOMY
B-10	Types of Ovules and Fertilization	B-40	Arecaceae (<i>Cocos nucifera</i>)
B-19	Microsporangium and Male Gametophyte (Anther)	B-41	Asteraceae (<i>Tridax procumbens</i>)
B-20	Megasporangium & Female Gametophyte (Ovule)	B-42	Brassicaceae (<i>Brassica oleracea</i>)
B-83	Seed Germination (Hypogeal and Epigeal)	B-43	Euphorbiaceae (<i>Ricinus communis</i>)
	HISTOLOGY	B-44	Fabaceae (<i>Tephrosia purpurea</i>)
B-22	Collenchyma (Simple Tissue)	B-45	Fabaceae (<i>Clitoria ternatea</i>)
B-23	Parenchyma (Simple Tissue)	B-46	Fabaceae (<i>Pisum sativum</i>)
B-24	Phloem (Complex Tissue)	B-47	Liliaceae (<i>Allium cepa</i>)
B-25	Sclerenchyma (Simple Tissue)	B-48	Malvaceae (<i>Hibiscus rosa-sinensis</i>)
B-26	Xylem (Complex Tissue)	B-49	Poaceae (<i>Triticum aestivum</i>)
B-63	Special Tissues	B-50	Rubiaceae (<i>Ixora coccinea</i>)
B-86	Meristem	B-51	Solanaceae (<i>Datura metel</i>)
B-87	Stomata - Structure and Classification	B-53	Bentham and Hooker's Classification
		B-69	Solanaceae (<i>Solanum nigrum</i>)
		B-80	Musaceae (<i>Musa paradisiaca</i>)

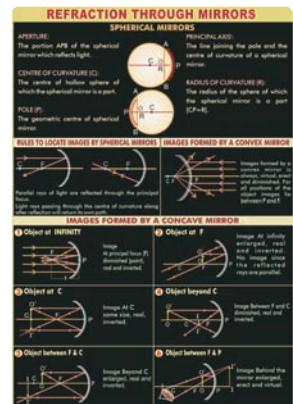
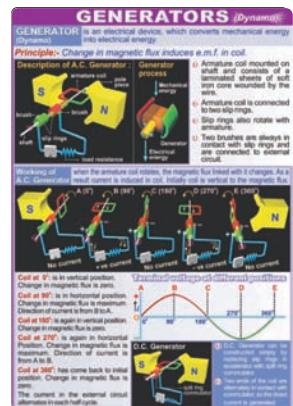
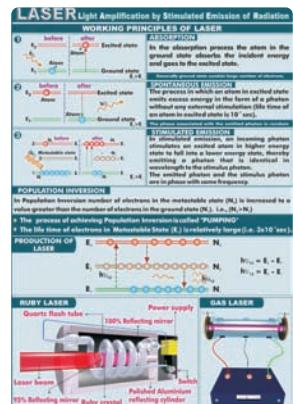
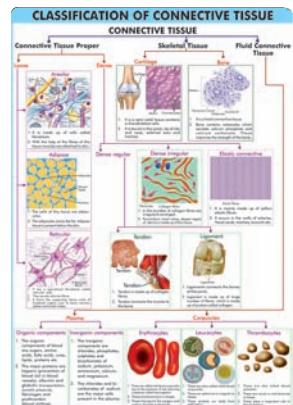


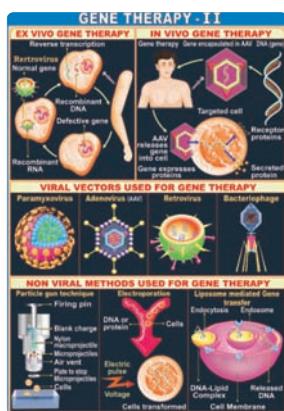
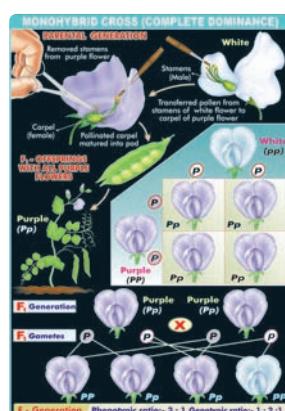
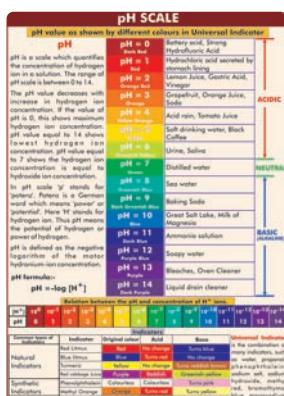
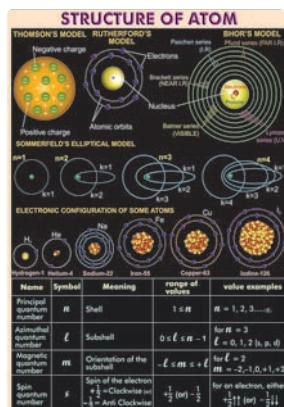


Code No.	TITLE	Code No.	TITLE
	PATHOLOGY	Z-46	Paramecium (Structure, Binary Fission, Structure of Pellicle, Cilium & its basal body)
B-52	Blast of Paddy	Z-47	Amoeba Structure and Nutrition
B-54	Citrus Canker	Z-48	Asexual Reproduction in Amoeba New
B-55	Grain Smut of Sorghum	MB-10	Pathogenic Protozoa - I
B-56	Red rot of Sugarcane	MB-11	Pathogenic Protozoa - II
	ECOLOGY		CNIDARIA (COELENTERATA)
B-57	Hydrophytes Anatomical Features	Z-62	Hydra (Structure, TS and LS, Cnidoblast and TS of Testis and Ovary)
B-58	Hydrophytes Morphological Features	Z-82	Sponges (Structure, Cross Section & Types)
B-62	Xerophytes Morphological Features	Z-83	Mollusca - Examples
New	ZOOLOGY	Z-84	Budding in Hydra and Yeast New
	Phylum Charts		PORIFERA
ZP-01	Phylum-Porifera	Z-61	Canal System in Sponges
ZP-02	Phylum-Coelenterata or Cnidaria	Z-82	Sponges (Structure, Cross Section & Types)
ZP-03	Phylum-Platyhelminthes		MOLLUSCA
ZP-04	Phylum-Nematoda	Z-83	Mollusca - Examples
ZP-05	Phylum-Annelida		PLATYHELMINTHES
ZP-06	Phylum-Arthropoda	Z-5	Taenia Solium Life Cycle
ZP-07	Phylum-Mollusca	Z-6	Wuchereria Bancrofti Life Cycle
ZP-08	Phylum-Echinodermata	Z-49	Taenia Solium Structure (Tape Worm)
ZP-09	Class-Pisces: Classification & Characteristics		ANNELIDA (Pheretima Posthuma)
ZP-10	Class-Amphibia: Classification&Characteristics	Z-7	Earthworm Blood Vascular System
ZP-11	Class-Reptilia: Classification&Characteristics	Z-8	Earthworm Digestive System
ZP-12	Class-Aves: Classification & Characteristics	Z-9	Earthworm Excretory System
ZP-13	Class-Mammalia: Classification&Characteristics	Z-10	Earthworm External Morphology
IPZ	Intermediate Practical Zoology Charts (Unlabelled Charts)	₹ 2871/-	Z-11 Earthworm General Anatomy
	Set of 11 Charts	Z-12	Earthworm Nervous System
IPZ-1	Earthworm Digestive System	Z-13	Earthworm Reproductive System
IPZ-2	Earthworm Nervous System		ARTHROPODA
IPZ-3	Earthworm Spermathecae	Z-14	Cockroach Digestive System
IPZ-4	Cockroach Mouthparts	Z-15	Cockroach External Features and Mouth Parts
IPZ-5	Cockroach Digestive System	Z-16	Cockroach Nervous System
IPZ-6	Cockroach Nervous System	Z-17	Cockroach Respiratory System
IPZ-7	Human Digestive System	Z-18	Butterfly - Life History & Mouth Parts
IPZ-8	Human Arterial System	Z-19	Housefly - Life History & Mouth Parts
IPZ-9	Human Venous System	Z-20	Mosquito - Life History & Mouth Parts
IPZ-10	Human Urinogenital System-Male	Z-21	Silkworm - Life History
IPZ-11	Human Urinogenital System-Female	Z-58	Cockroach Blood Circulatory System
	PROTOZOA	Z-59	Cockroach Reproductive System
Z-1	Entamoeba histolytica - Life History	Z-63	Harmful and Useful Insects
Z-2	Plasmodium Life Cycle in Human	Z-74	ECHINODERMATA
Z-3	Plasmodium Life Cycle in Mosquito		Asteria Water Vascular System
Z-4	Vorticella Conjugation	Z-40	CHORDATA
Z-44	Animal Kingdom - Classification	Z-81	Fish Gills and Scales
Z-45	Euglena (Structure, Reproduction & Euglenoid Movement)		Fish External Features & Types



Code No.	TITLE	Code No.	TITLE
Z-41	CHORDATA - Amphibia Frog Urinogenital System Male	Z-68	Schistosoma haematobium
Z-42	Frog Urinogenital System Female	Z-69	Trichuris trichiura (Whipworm)
Z-50	Frog Digestive System	Z-70	Trichinella spiralis (Trichinaworm)
Z-51	Frog Respiratory System	Z-71	Fasciolopsis buski (The Large or giant intestinal fluke)
Z-52	Frog Heart	Z-72	Leishmania donovani
Z-53	Frog External Features & Superficial Skeletal Muscles	Z-73	Trypanosoma gambiense
Z-54	Frog Arterial System	MB-10	Pathogenic Protozoa-I (Structural details of Entamoeba Histolytica, Balantidium and Plasmodium)
Z-55	Frog Venous System	MB-11	Pathogenic Protozoa-II (Structural details of Trypanosoma, Giardialambla, Leishmania)
Z-56	Frog Nervous System	HISTOLOGY	
Z-57	Frog Brain	Z-22	Connective Tissue (Animal Tissue - I)
Z-60	Frog Life Cycle	Z-23	Epithelial Tissue (Animal Tissue - II)
Z-80	Frog Development - Early (Cleavage, Blastula, Gastrula)	CYTOTOLOGY	
Z-43	CHORDATA - Reptilia Snakes (Poisonous & Non-Poisonous)	BI-4	Mitosis
Z-38	CHORDATA - Aves Pigeon General Anatomy	BI-5	Meiosis
Z-39	Pigeon Respiratory System	BI-7	Ultra Structure of Animal Cell
PHYSICAL SCIENCE			
Z-24	CHORDATA - Mammalian Rabbit Arterial System	PS-1	Cathode and Anode Rays
Z-25	Rabbit Brain	PS-2	Discharge Phenomena
Z-26	Rabbit Digestive System	PS-3	Laser
Z-27	Rabbit Double Circulation of Blood	PS-4	Nuclear Fusion and Fission
Z-28	Rabbit Endocrine System	PS-5	Nuclear Reactor
Z-29	Rabbit Excretory System	PS-6	Periodic Table of Elements - Long Form
Z-30	Rabbit General Anatomy	PS-7	Radioactivity - α , β , γ Rays
Z-31	Rabbit Embryo Development	PS-8	Oxygen - Preparation & Properties
Z-32	Rabbit Heart	PS-9	Hydrogen - Preparation & Properties
Z-33	Rabbit Nervous System	PS-10	Carbon-dioxide - Preparation & Properties
PHYSICS			
Z-34	PARASITOLOGY - Life Cycles Ascaris lumbricoides (Roundworm)	P-1	Logic Gates & DeMorgan's Theorems
Z-35	Ancylostoma duodenal (Hookworm)	P-2	Dispersion - Colour of Objects
Z-36	Dracunculus medinensis (Guinea/Dragon/Serpent worm)	P-3	Electromagnetism
Z-37	Enterobius vermicularis (Thread/Pin/Seat Worm)	P-4	Electric Motor
Z-64	Newton's Law of Motion	P-5	Electro Magnetic Induction
Z-65	Ohm's Law	P-6	Electro Magnetic Spectrum
Z-66	Reflection of Light - Mirrors	P-7	Generators (Dynamo)
Z-67	Refraction of Light - Lenses	P-8	Newton's Law of Motion
Z-68	Semiconductors	P-9	Ohm's Law
Z-69	Transistors	P-10	Reflection of Light - Mirrors
Z-70		P-11	Refraction of Light - Lenses
Z-71		P-12	Semiconductors
Z-72		P-13	Transistors

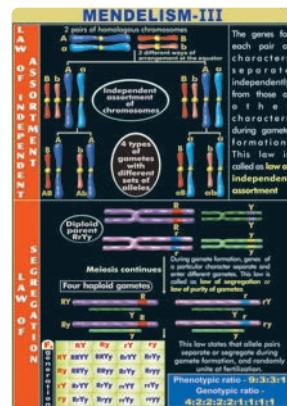


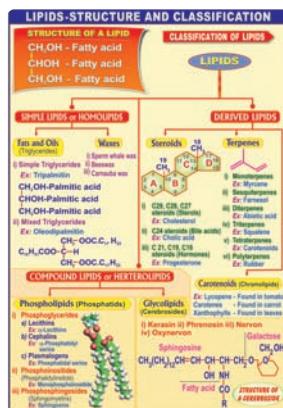
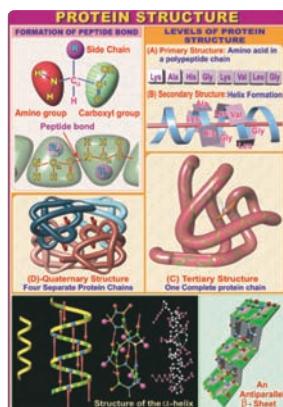
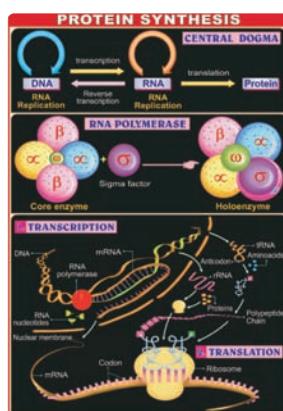
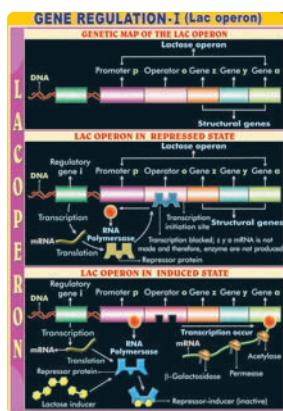


Code No.	TITLE	Code No.	TITLE
P-14	Transformer	C-16	Manufacture of Sulphuric Acid and Extraction of Sulphur
P-15	Cathode Ray Oscilloscope	C-17	Organic Chemistry - I (Isomerism, Functional Groups, Nomenclature)
P-16	X-Ray & Applications	C-18	Organic Chemistry - II (Hydrocarbons) (Alkanes, Alkenes, Alkynes and Benzene)
P-17	Thermo Electric Effect	C-19	Bleaching Powder Manufacture (Bachmann's Plant)
P-18	Light - Polarisation	C-20	Methane Preparation and Properties
P-19	Velocity of Light	C-21	Ethylene Preparation and Properties
P-20	Liquification of Hydrogen	C-22	Acetylene Preparation and Properties
P-21	Liquification of Air	C-23	Solid State
P-22	Optical Instruments (Microscope: Simple and Compound)	C-24	Shapes of Molecules
P-23	Telescope	C-25	s,p,d Orbitals
P-24	Production & Propagation of Sound & Echo	C-26	Conformations of Ethane & Cyclohexane
P-25	Primary Electric Cells (Voltaic, Lechlanche, Dry & Dichromate Cell)	C-27	Optical & Geometric Isomerism (Organic)
P-26	Electric Circuits	C-28	Optical & Geometric Isomerism (Inorganic)
P-27	Effects of Electric Current	C-29	Structure of Silicates
P-28	Renewable & Non-Renewable Energy Sources	C-31	pH Scale (Universal Indicator) New
P-29	Variation of Atmosphere	C-32	Electronic Configuration and Principles (Moeller's diagram) New
P-30	K.E , P.E Interconversion	P-21	Liquification of Air
P-31	Magnetism		
P-32	Vernier caliper, Screw gauge, Spherometer		
CHEMISTRY			
PS-6	Periodic Table of Elements - Long Form	GT-1	Chromosomal Aberrations (Depicts the changes in the structure and number of chromosome which cause mutations)
C-30	Structure of Atom	GT-2	Human Chromosomes and Giant Chromosomes (Types & Structures)
C-1	Allotropes of Carbon	GT-3	Crossing Over in Drosophila & Types
C-2	Bohr's Atomic Model	GT-4	Cytoplasmic Inheritance (Presents the Cytoplasmic exchange between killer and sensitive Paramecia)
C-3	Chemical Bond	GT-5	Dihybrid Cross (Depicts the complete dominance in F ₁ generation with Phenotypic and Genotypic ratios in F ₂ generation)
C-4	Extraction of Iron -Types of Furnace	GT-6	Linkage (Shows the results of two dihybrid crosses conducted by Morgan in Drosophila)
C-5	Extraction of Magnesium	GT-7	Monohybrid Cross (Complete Dominance)
C-6	Sodium Extraction (Down's Process)	GT-8	Monohybrid Cross (Incomplete Dominance)
C-7	Fractional Distillation of Petroleum	GT-9	Monohybrid Cross (10+2 Level) Ex: Stem Height
C-8	Hybridization	GT-10	Mendelism -I (Covers the seven pairs of Contrasting Traits in pea plants studied by Mendel)
C-9	Manufacture of Alcohol		
C-10	Aluminum Extraction		
C-11	Ammonia Manufacture (Haber's process)		
C-12	Manufacture of Portland Cement		
C-13	Manufacture of Sugar from Sugarcane		
C-14	Manufacture of Sodium Hydroxide and Chlorine		
C-15	Nitric Acid Manufacture (Ostwald Process)		
GENETICS			



Code No.	TITLE	Code No.	TITLE
GT-11	Mendelism -II (Covers the topic of Test cross and Back cross by taking flower colour as an example)	MB-8	Cultivation of Viruses (Embryonated Egg, Animal Inoculation, Cell Culture and its Types)
GT-12	Mendelism -III (Law of Independent assortment and law of segregation)	MB-9	T4-Lytic & Lysogenic Cycle Depicts the Lytic & Lysogenic cycle in T4 bacteriophage
GT-13	Pedigree Analysis (Illustrates pedigree involving phenotype controlled by a recessive allele and a dominant allele and symbols used in Human Pedigree Analysis)	MB-10	Pathogenic Protozoa - I (Structural details of Entamoeba Histolytica, Balantidium and Plasmodium)
GT-14	Sex Linked Inheritance (Hemophilia) (Depicts the Inheritance of Hemophilic in two cases (a) between Father without Hemophilia & Mother carrier (b) between Father with Hemophilia & Mother who is not a carrier)	MB-11	Pathogenic Protozoa - II (Structural details of Trypanosoma, Giardialambla, Leishmania)
GT-15	Syndromes (Illustrates the types of Syndromes & its Chromosomes)	MB-12	H I V - Human Immune Deficiency Virus (Structure and Life Cycle)
GT-16	Sex linked Inheritance (Color Blindness)	MB-13	Prokaryotic & Eukaryotic Cells (Ultra Structure of Prokaryotic and Eukaryotic cells and their comparision)
GT-17	Pedigree Analysis of Human Traits (Widows Peak, Hair Line, Thumb, Dimple, Earlobe, Little Finger, Rolling Tongue)	MB-14	DNA Replication in Bacteria (Shows the origin of replication, enzymes involved in replication, mechanism of DNA replication, modes of replication)
GT-18	Epistasis	MB-15	DNA Repair System (Shows the different steps of DNA damage and repair mechanism)
GT-20	Gene Therapy (Exvio & Invio Gene Therapy and Viral & Nonviral methods used for Gene Therapy)	MB-16	DNA Viral Replication (Represents the viral replication in ds DNA, Retroviruses, ssRNA ⁺ and ssRNA ⁻)
GT-21	Molecular Mechanism of Recombination	MB-17	DNA - Genetic Material (Depicts the experimental proof for DNA by Hershey-Chase Experiment and Messelson- Stahl's Experiment)
MICROBIOLOGY			
MB-1	Bacteria Fine Structure - I (Presents the detail structure of Capsule, Mesosome & differentiates the gram +ve and gram -ve of Cell Wall)	MB-18	Gene Regulation - I (LAC Operon) (Depicts Genetic map of E-Coli, Lac Operon concept and the mechanism of Lac Operon in absence and presence of an inducer)
MB-2	Bacteria Fine Structure - II (Presents the detail structure of Flagella, Nucleus, Ribosome and Polysome)	MB-19	Gene Regulation - II (Tryptophan Operon) (Depicts genetic map of Tryptophan Operon concept and the mechanism of Tryptophan Operon in absence and presence of an inducer)
MB-3	Bacteria Sporulation (Sporulation Cycle- Process of Endospore formation and its Structure)	MB-20	Gene Regulation - III (Arabinose Operon) (Depicts the components of Arabinose Operon, protein binding sites in regulatory, region and its repressed and induced state)
MB-4	Bacteria Germination & Cell Division (Process of germination and formation of two haploid cells by cell division)	MB-21	Gene Transfer Conjugation (Lederberg & Tatum's Experiment, Bernard Davis Experiment, steps in F Plasmid Transfer Conjugation between Hfr & F- Cell)
MB-5	Bacterial Plasmids & Transposons (Shows the Bacterium, forms of Plasmids and its types, Transposon- formation of Lollipop, stem and loop structure)	MB-22	Gene Transfer Transformation (It shows Griffith's Experiment, steps in transformation and mechanism)
MB-6	Types of Bacteria (Shows the different types of bacteria based on shapes and its examples)	MB-23	Gene Transfer Transduction (Shows Zinder & Lederberg Experiment, Generalised Transduction by bacteriophage and specialized transduction by temperate bacteriophage)
MB-7	Types of Viruses (Shows the three types of Viruses - Animal, Plant and Bacteriophage)		

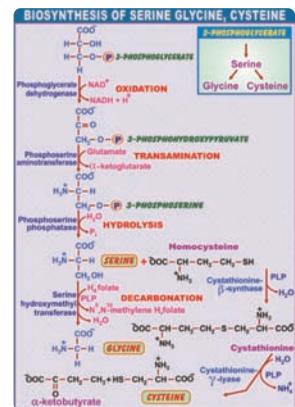
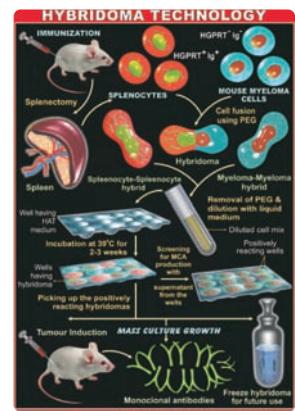


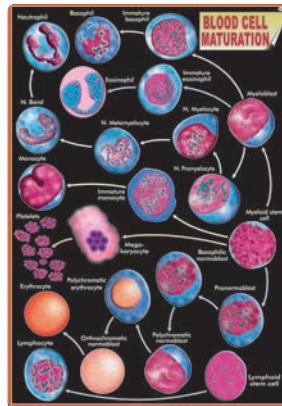
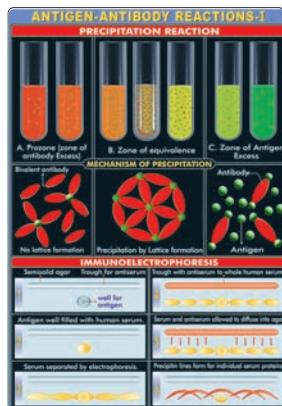
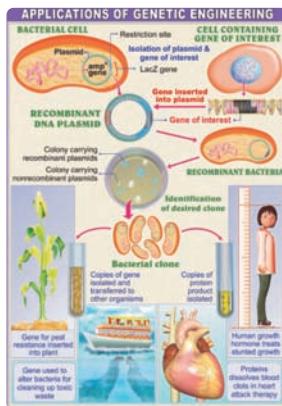
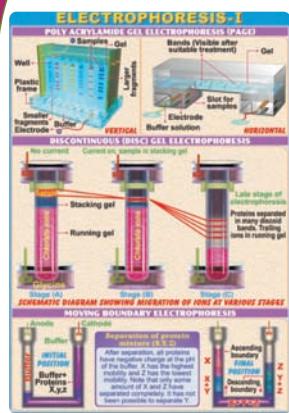


Code No.	TITLE	Code No.	TITLE
MB-24	Protein Synthesis (Shows the Central Dogma, Structure of RNA Polymerase and Process of Protein Synthesis (Transcription and Translation))	MB-40	Capsule Staining (Structure of Capsule and diagrammatic representation of Capsule Staining Procedure)
MB-25	Protein Synthesis - Translation (Illustrates the translation in both Prokaryotes and Eukaryotes)	MB-41	Spore Staining (Diagrammatic representation of Spore Staining Procedure)
MB-26	Protein Synthesis - Transcription Illustrates the transcription in both Prokaryotes & Eukaryotes)	MB-42	Negative Staining (Diagrammatic representation of Negative Staining Procedure)
MB-27	Pure Culture Techniques- I (Isolation of micro organisms by Pour Plate and Streak Plate Method)	MB-43	Whittackers Classification (Five Kingdom System by R.H. Whittaker and their types of nutrition with examples)
MB-28	Pure Culture Techniques- II (Isolation of micro organisms by Serial Dilution Method and Spread Plate Method)	MB-44	Agaricus Life Cycle (Mushroom)
MB-29	Control of Micro Organisms (Represents the Physical, Chemical and Mechanical methods of sterilization for the control of microbial growth and equipments)	MB-45	Aspergillus Life Cycle (Structure and Life Cycle - Sexual & Asexual)
MB-30	Light Microscope & Its Types (Depicts principle of Light Microscope and its types- Bright field, Dark field, Fluorescence and Phase contrast Microscopes)	MB-46	Cultural Characteristics (Forms, Margins and Elevation of Colonies)
MB-31	Electron Microscope & Its Types (Illustrates the working principle of Electron Microscope and its types- Scanning and Transmission Electroscope)	MB-47	Cultural Characteristics - II (Growth patterns on Slants & Broths, and forms of growth in Nutrient Geletin Stabs)
MB-32	Waste Water Treatment (Schematic representation of purification of waste water to produce pure potable drinking water)	MB-48	Penicillium Life Cycle (Structure and Stages of Life Cycle - Asexual-Conidial Stage and Sexual-Ascigerous stage)
MB-33	Sewage Treatment (Schematic representation of Sewage treatment in two stages - Primary and Secondary treatment)	BIOCHEMISTRY	
MB-34	Bacteria Motility Test (Shows parts of flagella and hanging drop technique procedure)	BC-1	Protein Structure (Illustrates the formation of Peptide bond, primary, secondary, tertiary & quaternary structures of protein, with alpha Helix & beta anti parallel pleated sheet)
MB-35	Mucor Life Cycle (Structure and Life Cycle- Sexual & Asexual)	BC-2	Classifications of Proteins with examples and structures
MB-36	Multiple Tube Fermentation (Diagrammatic representation of complete procedure)	BC-3	Amino Acid Structure -I (Represents the Structure of 10 Amino acids)
MB-37	Winogradsky Column (Diagram and Organisms present in the Winogradsky Column)	BC-4	Amino Acid Structure -II (Represents the Structure of 10 Amino acids)
MB-38	Acid Fast Staining (Ziehl-Neelsen Acid-Fast Staining Procedure)	BC-5	Classification of Amino Acids (Represents the various classification based on polarity, reaction in solutions, Amino & carboxyl groups, structure of side chains & Biological importance)
MB-39	Grams Staining (Diagrammatic representation of GS Procedure)	BC-6	Carbohydrates Structure & Classification (Represents the basic structure of carbohydrates & its classification with examples)
		BC-7	Lipids Structure & Classification
		BC-8	Enzymes Classification & Kinetics (Shows the classification, Enzyme action & inhibition)
		BC-9	Chromatography - I (AB-Affinity, Thin layer, Circular, Molecular sieve, Paper and Gas Chromatography)



Code No.	TITLE	Code No.	TITLE
BC-10	Chromatography - II (Gel filtration, Ion Exchange, Hydrophobic Interaction chromatography technique with procedure)	BC-27	Biosynthesis of Glutamate, Aspartate Threonine (from Oxaloacetic acid)
BC-11	HPLC (Depicts the process in a diagrammatic representation)	BT-1	Action of Restriction Enzyme (Shows both the cleavage styles & their examples with the plane of cutting)
BC-12	Electrophoresis procedure (Explains the complete process of eletrophoresis with diagrammatic represenataion)	BT-2	Bio - Reactors - I (Designs of Stirred-Tanks, Sparged Stirred Tank, Membrane cycle, Packed Bed, Tower, Cyclone column and A hollow fibre bioreactor)
BC-13	Electrophoresis- I (Polyacrylamide, Discontinuous (Disc), Moving Boundary Electrophoresis)	BT-3	Bio - Reactors - II (Design of Cylindro-conical Bioreactor & V-fermenter for production of plant metabolites and vessels used for animal cell cultures)
BC-14	Electrophoresis- II (Paper & High Voltage Electrophoresis, Iso Electric Focusing)	BT-4	Bio - Gas Plant (Designs of horizontal & vertical, fixed dome type biogas plant and anaerobic fixed bed reactor system)
BC-15	Porphyrins (Depicts the porphyrin nucleus & shows the structure of metallocporphyrins and its examples Vitamin B12, Chlorophylla and HEME)	BT-5	DNA Synthesis - I (Illustrates the synthesis of complementary DNA by reverse transcription)
BC-16	Urea Cycle (Shows biosynthesis of Urea from carbamoyl phosphate)	BT-6	DNA Synthesis - II (Illustrates the gene machine apparatus and parts of a gene machine in schematic representation)
BC-17	Nucleotide & Biosynthesis - I (Shows the structure of Purines with their biosynthesis)	BT-7	DNA Synthesis - III (Phosphoramidite method of DNA synthesis, Assembling the Duplex DNA, Enzymatic synthesis of DNA)
BC-18	Nucleotide & Biosynthesis - II (Shows the structure Pyrimidines with their biosynthesis)	BT-8	DNA Finger Printing (Shows the variable number of tandem repeats on chromosomes of Individuals 'A', 'B' and comparision of bands with DNA from crime scene 'C')
BIOSYNTHESIS			
BC-19	An Over View of Amino Acid Biosynthesis (Represents the biosynthesis of 20 amino acids from Glucose & its various products)	BT-9	DNA Finger Printing (Restriction DNA Fragments & Southern Blotting Setup)
BC-20	Biosynthesis of Alanine, Asparagine, Glutamine (Represents the biosynthesis of Alianine & Glutamine from pyruvate & Asparagine from oxaloacetate)	BT-10	Gene Transfer Techniques - I (Transformation, Microinjecion of rDNA into Zygotic Cell Transduction)
BC-21	Biosynthesis of Serine, Glycine, Cysteine from three phosphoglycerate	BT-11	Gene Transfer Techniques - II (Microprojectile Bombardment Technique, Transfection (by calcium phosphate precipitation) & Electroporation)
BC-22	Biosynthesis of Histidine from 5- Phosphoribosyl-a-pyrophosphate (PRPP)	BT-12	Gene Transfer Techniques - III (Covers the magnetofection, Liposome mediated Gene transfer, Agro bacterium mediated gene transfer techniques)
BC-23	Biosynthesis of Aromatic Amino Acids (from Chorismate)	BT-13	Gene Cloning (Process of Gene Cloning in bacteria & Recombinant DNA)
BC-24	Biosynthesis of Proline and Arginine (from Glutamate)	BT-14	Gene Library (Illustrates the construction of complementary DNA library which is also called as gene bank)
BC-25	Biosynthesis of Lysine & methionine (from Aspartate)	BT-15	Hybridoma Technology
BC-26	Biosynthesis of Isoleucine Valine and Leucine (from Pyruvate)		

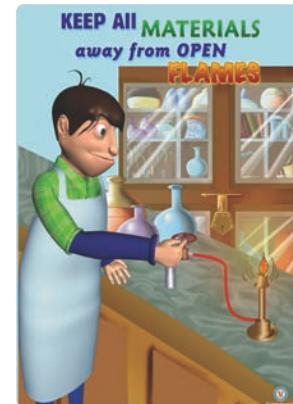
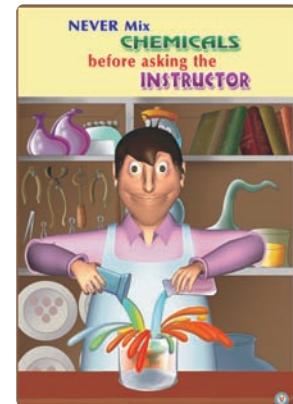
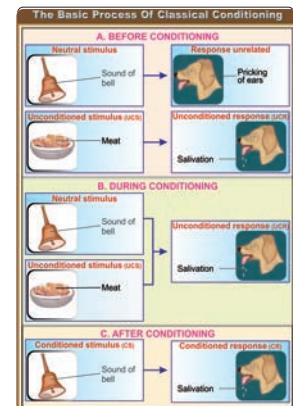
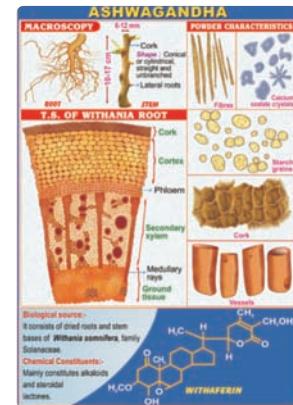




Code No.	TITLE	Code No.	TITLE
BT-16	Insulin Production (Covers the synthesis insulin of via chemically synthesized gene cloning and in human cells)	IM-4	Blood Cell Maturation (Shows the formation of different types of blood cells)
BT-17	Immobilization of Enzymes (Covers the techniques of Immobilization, absorption, non-covalent entrapment, covalent binding, entrapment with covalent binding, Membrane Confinement, Cross linking & Liposomal entrapment)	IM-5	Complement System (Shows classical, lectin and alternative pathway)
BT-18	Northern- Hybridization	IM-6	Cells of Immune System (Depicts the types of lineage and progenitors & formation of different cells of immune system)
BT-19	Southern- Hybridization	IM-7	Cell Surface Receptors (Shows three classes of CSR - 1.Ion-Channel, 2.G-Protein and 3.Enzyme Receptors)
BT-20	Western- Hybridization	IM-8	Elisa (Enzyme Linked Immuno Sorbent Assay) Shows the process of ELISA both direct antigen coating (DA) & Double antibody Sandwich (Das)
BT-21	Penicillin Production (Shows the schematic representation of penicillin production and includes the types of penicillin structure of penicillin)	IM-9	Hypersensitivity - I & (Depicts the TypeI- Anaphylactic and Type II- Cytotoxic reaction)
BT-22	Polymerase Chain Reaction (PCR) (Illustrates the process of PCR with the PCR apparatus)	IM-10	Hypersensitivity -III & IV (Depicts the Type III- Immune complex mediated hypersensitivity and Type IV Cell mediated delayed hypersensitivity)
BT-23	Sheep Cloning	IM-11	Hypersensitivity- V (Depicts the Type V- Stimulatory hypersensitivity (Thyroiditis or Graves's disease))
BT-24	Single Cell Protein (Schematic representation of SCP commercial production from Hydrocarbons and some micro organisms used as SCP)	IM-12	Immunoglobulin (Shows the 3D and Primary structure and types of Monomer IgG, IgD, IgE, Dimer secretory IgA and Pentamer IgM)
BT-25	Transgenic Animals (Ex: Cow)	IM-13	Interferon Production (Shows the production of three types of interferon's with structure- IFN a,b,g of Interferon)
BT-26	Transgenic Plants	IM-14	Lymphocyte Immune Defense (Represents the T Cell & B Cell immune defence)
BT-27	Vectors - I (Structure of Plasmid & Cosmid and types of vectors- Plant & Shuttle)	IM-15	Lymphocyte Activation (Represents the activation of T & B lymphocyte)
BT-28	Vectors - II (Animal & Artificial - Yeast and Bacteria)	IM-16	MHC- Major Histocompatibility (Represents the structure of two classes of MHC & its pathway both exogenous & endogenous)
BT-29	Vectors - III (Structure of λ Phase, Expression and Phasmid λ ZAP Vectors and Transposons)	IM-17	Primary Lymphoid Organs (Shows different types of primary lymphoid organs - Thymus (TS & Tissue), Bone marrow and Bursa of fabricius)
BT-30	Embryonic Stem Cell Technology (Depicts the making of transgenic mice using engineered embryonic stem cells)	IM-18	Secondary Lymphoid Organs (Presents the structure of Lymph node, Spleen, Mucosa associated lymphoid tissue)
BT-31	Applications of Genetic Engineering	IM-19	Polyclonal Antibodies (Shows the structure and polyclonal antibodies)
IMMUNOLOGY			
IM-1	Antigen Antibody Reactions -I (Illustrates the precipitation reaction and its mechanism & Immuno electrophoresis)	IM-20	Cell Cycle Regulation (Shows the cell cycle and regulation)
IM-2	Antigen Antibody Reactions -II (Illustrates the Agglutination reaction, Haemagglutination and direct & indirect coombs / antiglobulin test)		
IM-3	Antigen Antibody Reactions -III (Shows Opsonisation, Neutralization, radio immuno assay & Immuno Fluorescence techniques)		



Code No.	TITLE	Code No.	TITLE
PHARMACOGNOSY			PY-8 Freud's Defense Mechanisms
Showing Macroscopy, T.S./L.S. of Root / Stem / Leaf / Fruit / Seed, Powdered Characteristics, Structure of Chemical Constituents and Biological Source.			PY-9 Freud's Stages of Personality Development
PH-1	Anise	PY-10 Normal Probability Curve	PY-11 Erikson's Stages Of Psycho social Development
PH-2	Aloes (Aloe vera)	PY-12 The Big Five Personality Factors and Dimensions	PY-13 Piaget's Stages of Cognitive Development
PH-3	Ashwagandha	PY-14 Kohlberg's Stages of Moral Development	PY-15 Wechsler Adult Intelligence Scale (WAIS)
PH-4	Belladonna	PY-16 Maslow's Hierarchy Of Needs	PY-17 Eye Senck's Simensions of Personality <i>Portraits of Great Psychologists are also available. For details refer page number 24.</i>
PH-5	Clove Bud		
PH-6	Coriander Fruit		
PH-7	Cascara Bark		
PH-8	Cardamom Fruit		
PH-9	Cinnamon Bark		
PH-10	Digitallis Leaf		
PH-11	Datura Leaf		
PH-12	Ephedra Stem		
PH-13	Fennel Fruit		
PH-14	Ginger Rhizome		
PH-15	Ipecacuanha Root		
PH-16	Kurchi Bark		
PH-17	Liquorice Root		
PH-18	Nuxvomica Seed		
PH-19	Quantitative Pharmacognosy-I (Microscopic Calibration)		
PH-20	Quantitative Pharmacognosy -II (Determination of Vein Islet Number and determination of Palisade ration)		
PH-21	Rauwolfia Root		
PH-22	Squill		
PH-23	Senna Leaf		
PH-24	Turmeric		
PH-25	Typical Examples of Epidermis Showing Stomata, Trichomes & Epidermal Cells		
PH-26	Vasaka Leaf		
PSYCHOLOGY			
Matt Canvass laminated on board Size: 18x24"			₹ 745/- Each
PY-1	The Sequence Of Motor Development-I		
PY-2	The Sequence Of Motor Development-II		
PY-3	The Basic Process Of Classical Conditioning		
PY-4	Roscharch Inkblot Test (A simulation)		
PY-5	The Gestalt Laws of Organisation		
PY-6	The Gestalt Laws of Organisation-II		
PY-7	Cattell's 16 Personality Factors		





HISTOGRAM AND FREQUENCY POLYGON

The marks obtained by 30 students in mathematics examination are as follows:

80, 94, 75, 83, 87, 89, 73, 80, 71, 69, 85, 75
79, 83, 77, 80, 85, 86, 75, 84, 75, 77, 84, 80, 79
64, 72, 75, 57, 74, 69, 70, 71, 73, 76, 78, 70
78, 79, 81, 75, 86, 80, 73, 81

Class Interval **Tally Marks** **Frequency** **Class Midvalue**

60 - 65		3	62.5
65 - 70		5	67.5
70 - 75		6	72.5
75 - 80		5	77.5
80 - 85		5	82.5
85 - 90		5	87.5
90 - 95		2	92.5
95 - 100		2	97.5

Class interval = 5

Range = Maximum value - Minimum value
 $= 96 - 60 = 36$

Number of classes = $\frac{Range}{Class\ interval} = \frac{36}{5} = 7.2$
(8 nearest integer)

Total = 30

X-axis

Y-axis

Scaling: 1 cm = 1 mark, 2 cm = 1 unit

Frequency polygon

Histogram

PROPERTIES OF SIMILAR TRIANGLES	
If two triangles are similar,	then the ratio of their corresponding sides is equal to the ratio of their corresponding angles.
If two triangles are similar,	then the ratio of their corresponding sides is equal to the ratio of their corresponding medians.
If two triangles are similar,	then the ratio of their corresponding sides is equal to the ratio of their corresponding angle bisector segments.
If two triangles are similar,	then the ratio of their areas is equal to the ratio of squares of their corresponding sides.
Area of $\triangle ABC$	Area of $\triangle PQR$ \Rightarrow $\frac{\text{Area of } \triangle ABC}{\text{Area of } \triangle PQR} = \frac{AB^2}{PQ^2} \Rightarrow \triangle ABC \sim \triangle PQR$
If two triangles are similar,	then the ratio of their areas is equal to the ratio of squares of their corresponding altitudes.
Area of $\triangle ABC$	Area of $\triangle PQR$ \Rightarrow $\frac{\text{Area of } \triangle ABC}{\text{Area of } \triangle PQR} = \frac{AD^2}{PE^2} \Rightarrow \triangle ABC \sim \triangle PQR$
If two triangles are similar,	then the ratio of their areas is equal to the ratio of squares of their corresponding perimeters.
Area of $\triangle ABC$	Area of $\triangle PQR$ \Rightarrow $\frac{\text{Area of } \triangle ABC}{\text{Area of } \triangle PQR} = \frac{AB + BC + CA}{PQ + QR + PR} \Rightarrow \triangle ABC \sim \triangle PQR$
If two triangles are similar,	then the ratio of their areas is equal to the ratio of squares of their corresponding radii of inscribed circles.
Area of $\triangle ABC$	Area of $\triangle PQR$ \Rightarrow $\frac{\text{Area of } \triangle ABC}{\text{Area of } \triangle PQR} = \frac{r}{R} \Rightarrow \triangle ABC \sim \triangle PQR$

SETS

Only A = $A - B = (A - \{B\})$

Only B = $B - A = (B - \{A\})$

Only A-B = $A - (A \cap B) = A - B$

Only B-A = $B - (A \cap B) = B - A$

Only A-B-C = $A - (B \cup C) = A - B - C$

Only B-C = $B - (A \cup C) = B - A - C$

Only C-B = $C - (A \cup B) = C - A - B$

Only A-B-C = $A - (B \cap C) = A - B - C$

Only A-C = $A - (B \cap C) = A - B - C$

Only A-B-C = $A - (B \cap C) = A - B - C$

Only A-C = $A - (B \cap C) = A - B - C$

Only B-C = $B - (A \cap C) = B - A - C$

Only C-B = $C - (A \cap B) = C - A - B$

Only A-B-C = $A - (B \cap C) = A - B - C$

Only A-C = $A - (B \cap C) = A - B - C$

Only B-C = $B - (A \cap C) = B - A - C$

Only C-B = $C - (A \cap B) = C - A - B$

Only A-B-C = $A - (B \cap C) = A - B - C$

Only A-C = $A - (B \cap C) = A - B - C$

Only B-C = $B - (A \cap C) = B - A - C$

Only C-B = $C - (A \cap B) = C - A - B$

Only A-B-C = $A - (B \cap C) = A - B - C$

Only A-C = $A - (B \cap C) = A - B - C$

Only B-C = $B - (A \cap C) = B - A - C$

Only C-B = $C - (A \cap B) = C - A - B$

Only A-B

Only B-A

Only A-B-C

Only A-B-C

Only B-C

Only B-C

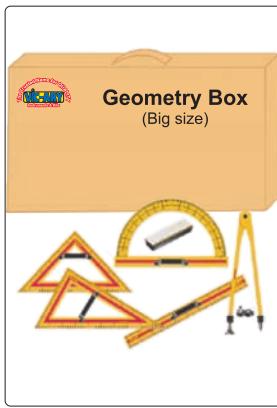
Only C-B

Only C-B

Symmetric Difference

A△B = (A-B) ∪ (B-A) = [A ∩ B] - [A ∩ B]

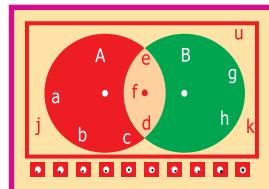
A△B



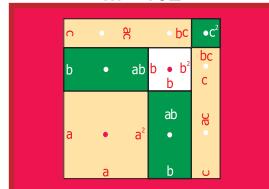
Code No.	TITLE		Code No.	TITLE	
	MATHEMATICAL CHARTS			TEACHING AIDS	
M-1	Pyramid of factors		M-32	Magnetic Fraction Disk	₹ 345/-
M-2	Addition of Integers		M-33	Ring Of Theorem	₹ 650/-
M-3	Fundamental Concept of Geometry		M-34	Hollow Sphere (Transparent)	₹ 450/-
M-4	Sets		M-35	Hollow Cylinder (Transparent)	₹ 450/-
M-5	Comparison of Laws		M-37	Angle Sum Property Of Triangle	₹ 180/-
M-6	Functions		M-38	Angle Sum Property Of Quadrilateral	₹ 180/-
M-8	Bionomial Theorem – Basic Rules		M-39	Exterior Angle Of Regular Polygon	₹ 500/-
M-11	Progressions and Infinite Geometric Progression		M-40	Volume Relation Between Cone and Cylinder	₹ 180/-
M-12	Linear Inequations		M-42	Pythagoras Theorem Acrylic/Pvc	₹ 595/-
M-15	Daily life examples of LOCI		M-43	Ratio Of Area of Similar Triangles	₹ 320/-
M-16	Symmetry		M-44	Combination of Cube and Sphere (transparent)	₹ 750/-
M-17	Areas		M-45	Formation of Tetrahedron	₹ 750/-
M-18	Similar Triangles		M-46	Polyhedrons and there net	₹ 600/-
M-19	Properties of Similar Triangles		M-47	Unit Cubes a) Set of 120 Cubes b) Set of 64 Cubes	₹ 600/- ₹ 375/-
M-20	Congruent Triangles		M-48	Construction Of Parabola	₹ 180/-
M-21	Concurrent lines in a triangle		M-50	Angle Property Of Cyclic Quadrilateral	₹ 180/-
M-22	Circles		M-51	Clinometer Compass	₹ 500/-
M-23	Parallel Lines		M-52	Geoboard a) Wooden with Graph b) Plastic	₹ 700/- ₹ 175/-
M-24	Angles		M-53	Mathematical Geometry Box a) All Wooden b) Export Quality-Big Size	₹ 700/- ₹ 900/-
M-25	Mathematical Symbols		M-54	Wooden Geometrical Figures 3D Wooden Shapes Set of 12 in box	₹ 350/-
M-26	Geometry Concept		M-55	I) Abacus Primary II) Abacus Senior	₹ 124/- ₹ 375/-
M-27	Mensuration		M-56	Geo Geometry Sticks Set of 24	₹ 695/-
M-28	Histogram And Frequency Polygon		M-57	Student Identity Kit $(a+b)^2$, $(a-b)^2$, a^2-b^2	₹ 295/-
M-29	Cumulative Frequency Distribution		M-58	Identity Kit $(a+b+c)^2$	₹ 495/-
M-30	Types of Straight line equations		M-59	Identity Kit $(a+b)^2 - (a-b)^2 = 4ab$	₹ 495/-
M-31	Frequency Curve		M-60	Dummy Clock & Angle Marker	₹ 275/-
M-35	Co-ordinate Geometry-formulae		M-61	Tangram	₹ 55/-
M-37	Circumcircle		M-62	Super Maths: Board game	₹ 85/-
M-66	Graph Chart	Big size ₹ 265/- Medium size ₹ 165/-	M-63	Trigonometry Board	₹ 1250/-
			M-64	X, Y Axis Co-ordinate Geoboard	₹ 525/-
			M-65	Geometric Stencils	₹ 216/-



Code No.	TITLE	Code No.	TITLE
New	TEACHING AIDS With Manual		
M-101	Types of sets	₹ 445/-	M-311 The bisector of vertex angle of isosceles triangle bisects the base (Third side) perpendicularly ₹ 445/-
M-102	Operation of sets	₹ 445/-	M-312 Mid Point ₹ 445/-
M-103	Number sets	₹ 445/-	M-313 The Equiangular triangles are similar ₹ 445/-
M-201	$(a+b)^2$ Identity	₹ 445/-	M-314 The ratios of areas of similar triangles are equal to ratios of the squares of their corresponding sides ₹ 445/-
M-202	$(a-b)^2$ Identity	₹ 445/-	M-315 Practical proof of Phytagore's theorem ₹ 445/-
M-203	$(x+a)(x+b)$ Identity	₹ 445/-	M-316 Phytagore's Theorem ₹ 445/-
M-204	$(a+b+c)^2$ Identity	₹ 445/-	M-317 Angle subtended by an arc at the centre of the Circle is twice of the angle subtended by the same arc on the remaining part of the circle at any point of the Circle ₹ 445/-
M-205	$(a+b)(a-b)$ Identity	₹ 445/-	M-318 Angle in the semi circle is 90° ₹ 445/-
M-206	Brackets	₹ 445/-	M-319 Angle Subtended in the same segment of a circle are equal ₹ 445/-
M-207	Factorisation of trinomials	₹ 445/-	M-401 Square - it's characters ₹ 445/-
M-208	Simple Equations	₹ 445/-	M-402 Rectangle-it's characters ₹ 445/-
M-301	Types of angles	₹ 445/-	M-403 Parallelogram - it's characters ₹ 445/-
M-302	Angles formed by parallel Lines and transverse	₹ 445/-	M-404 Rhombus - it's characters ₹ 445/-
M-303	Sum of interior angles of a triangle is 180° (by using alternative angles)	₹ 445/-	M-405 Types of Trapeziums ₹ 445/-
M-304	Sum of interior angles of a triangle is 180° (by using alternate and corresponding angles)	₹ 445/-	M-406 Areas of parallelogram standing on the same base and between two parallels are same ₹ 445/-
M-305	Sum of interior angles of a triangle is 180° (by using alternative angles)	₹ 445/-	M-407 Types of Quadrilaterals ₹ 445/-
M-306	Sum of interior angles of a triangle is 180° (by folding)	₹ 445/-	M-408 Kite - it's characters ₹ 445/-
M-307	Exterior angle of a triangle is equal to sum of interior opposite angles	₹ 445/-	M-409 Areas of Quadrilaterals ₹ 445/-
M-308	The angle formed by intersection of bisectors of two interior angles of a triangle is greater than half of the third angle of that triangle by 90°	₹ 445/-	M-501 Cyclic Quadrilateral ₹ 445/-
M-309	The angle formed by intersection of bisectors of two exterior angles of a triangle is smaller than 90° by the half of third angle of that triangle	₹ 445/-	M-502 Regular Pentagon ₹ 445/-
M-310	Type of triangles	₹ 445/-	M-503 Regular Hexagon ₹ 445/-
			M-504 Regular Octagon ₹ 445/-
			M-505 Regular Decagon ₹ 445/-



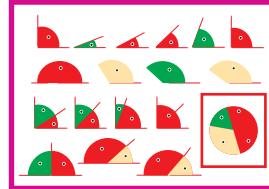
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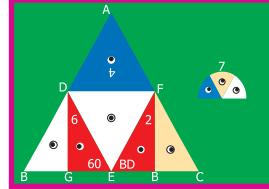
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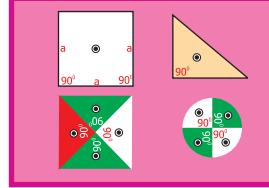
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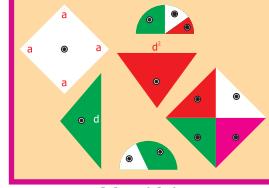
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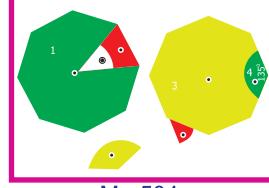
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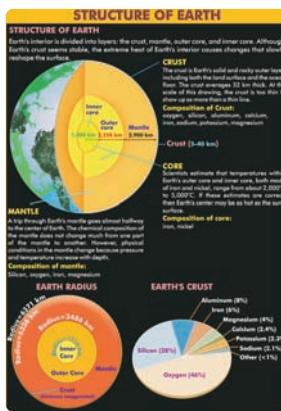
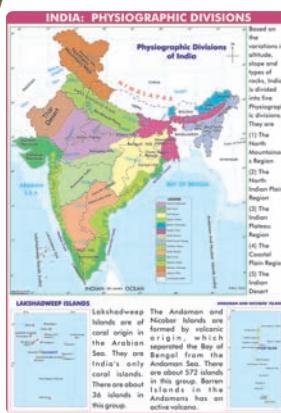
M - 401



M - 404



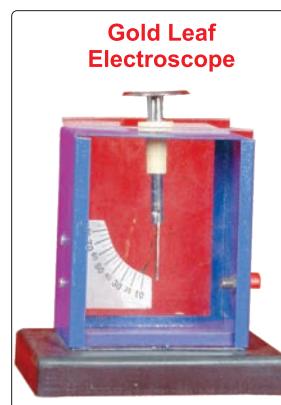
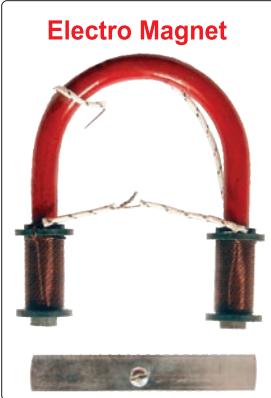
M - 504



Code No.	TITLE	Code No.	TITLE	
GEOGRAPHY CHARTS				
SS-1	Geographical Position of India , Elements of Maps, Thematic & Choropleth Maps	1	Solar System ₹ 285/-	
SS-2	India: Location & Extent	2	Eclipse ₹ 210/-	
SS-3	India: Physiographic Divisions	3	Seasons of Globe ₹ 285/-	
SS-4	India: Northern Mountainous & North Indian Plain Region	4	Phases of Moon ₹ 285/-	
SS-5	India: Soils and Major Crops	5	Day and Night ₹ 210/-	
SS-6	India: Natural Vegetation & Animal Species	6	Wind Mill ₹ 285/-	
SS-7	India: Drought Prone & Desert Regions and Distribution of Annual Rainfall	7	Time Indicator ₹ 210/-	
SS-8	India: Climate - Temperature & Pressure	8	Set of 20 Minerals ₹ 415/-	
SS-9	India: Climate - Rainy Season	9	Set of 12 Metals ₹ 415/-	
SS-10	India: Climate - Winter	10	Set of 20 Metallic Ores ₹ 415/-	
SS-11	India: Major Rivers	11	Set of 20 Rocks ₹ 415/-	
SS-12	India: Major Dams & Lakes	12	Set of 20 Alloys ₹ 415/-	
SS-13	India: Railways & Zones	13	Geological Clock: ₹ 75/- A paper dial to explain various activities that have occurred on Earth in its history	
SS-15	India: Sea Routes and Ports	14	Tide Dial: ₹ 75/- A paper dial to know how high / low tides are at different times in a day	
Bi-18	Solar System	15	Drifting Continents: ₹ 75/- A project to show that a land mass drifted way to become Continent	
Bi-20	Solar and Lunar Eclipse	16	Changing Shape of Saturn Rings: ₹ 180/- Majestic Rings of Saturn to show different face to us	
Bi-27	Structure of Earth	17	Solar System Hanging type ₹ 198/- Paper Board Kit to make real looking Solar System	
Bi-28	Structure of Sun	18	Earth Model ₹ 1750/-	
MAPS				
MP-1	World Political	19	Solar system ₹ 1750/- (Motorized model)	
MP-2	World Physical			
MP-3	India Political	SCIENCE MATERIALS		
MP-4	India Physical	Physics		
MP-5	Andhra Pradesh Political	1	Magnets	
MP-6	Andhra Pradesh Physical	(a) Bar Magnet Powerful		
MP-7	Asia	(i) 2" ₹ 129/-		
MP-8	Africa	(ii) 3" ₹ 160/-		
MP-9	Europe	(b) Horse Shoe Magnet Powerful		
MP-10	North America	(i) 2" ₹ 120/-		
MP-11	South America	(ii) 3" ₹ 175/-		
MP-12	Australia	(c) Round Magnet Set of 10 ₹ 125/-		
OUTLINE MAPS				
India, World, & Continents		2	(d) Disk Magnet Set of 10 ₹ 125/-	
			(e) Neodymium Magnet Set ₹ 125/-	
			(f) Rubber Magnet sheet ₹ 125/-	
			(g) Electro-Magnet ₹ 175/-	
Each ₹ 150/-		14		
Note: Above items will be supplied by H.O. Vijayshanti Instruments Corporation, Hyderabad, Vat Extra				



Code No.	TITLE	Code No.	TITLE
3	Vernier Caliper: (a) 12.5cms Steel Chrome plated ₹ 68/- (b) 15cms IME Type in box ₹ 215/- (c) Demonstration Model Wooden ₹ 685/-	29	Laws of Reflection of Light ₹ 298/-
4	Screw Gauge (a) 20cms Crass body Chrome plated ₹ 155/- (b) 25cms heavy, Brass body CP in box ₹ 245/- (c) Demonstration Model All Metal ₹ 875/-	30	Ray Box: Experimental box to view Divergence, Convergence in Lenses, Light passes through straight line, including the Lenses, Prism, Laser Torch ₹ 485/-
5	Magnetic Needle on stand ₹ 110/-	31	Reflection of Sound ₹ 430/-
6	Stop Clock (a) Analog ₹ 465/- (b) Digital ₹ 700/-	32	Inclined Board ₹ 375/-
7	Thermometers (a) Centigrade ₹ 60/- (b) Fahrenheit ₹ 60/- (c) Clinical ₹ 50/- (d) Digital ₹ 185/- (e) Six's Maximum & Minimum ₹ 195/- (f) Wall type ₹ 60/-	33	Multi Purpose laminated Inclined Track Board laminated for studying Motion ₹ 395/-
8	Rain Gauge Metal ₹ 375/-	34	Inclined Plane of same Height with different Slopes Set of 3 ₹ 285/-
9	Periscope ₹ 125/-	35	Galileo Expt. Inclined Planes Set of 3 ₹ 375/-
10	Kaleidoscope ₹ 125/-	36	Multi Colour Electric Connection Wire ₹ 30/-
11	Telescope ₹ 185/-	37	D.C.C. (Double Cotton Covered) Connection Wire (per Roll) ₹ 145/-
12	Telescope Senior ₹ 2850/-	38	Metal Steel Wire Per Roll ₹ 75/-
13	Stethoscope ₹ 195/-	39	Stainless Steel Wire Per Roll ₹ 125/-
14	Making Kit of Pin Hole camera ₹ 75/-	40	Measuring Scales: (a) Meter Scale Wooden ₹ 75/- (b) Half Meter Scale ₹ 58/-
15	Lenses & Mirrors 2" (a) Concave & Convex Lens Each ₹ 16/- (b) Concave & Convex Mirrors Each ₹ 25/- (c) Plano Concave & Convex Lens Each ₹ 49/-	41	Series & Parallel Connections on board ₹ 575/-
16	Plane Mirror ₹ 15/-	42	Slotted Weights ₹ 140/-
17	Lens Stand ₹ 55/- Wooden V Type suitable for Lenses & Mirror	43	Spring Balance ₹ 36/-
18	Copper Plates fitted with terminals ₹ 65/-	44	Pulley's Kit ₹ 325/-
19	Zinc Plated fitted with terminals ₹ 40/-	45	Pith Ball Pendulum on stand ₹ 98/-
20	Zinc Rod fitted with terminals ₹ 75/-	46	Pendulum Bob Set of six ₹ 250/-
21	Copper Rod fitted with terminals ₹ 130/-	47	Gold Leaf Electroscope ₹ 310/-
22	Ebonite Rod ₹ 40/-	48	Electric Bell ₹ 1425/- in Bell Jar with Vacuum Pump
23	Carbon Rod fitted with terminals ₹ 55/-	49	Electric Bell in Bell Jar ₹ 725/-
24	Ground Glass ₹ 15/-	50	Electric Bell Demonstration Model ₹ 480/-
25	Glass Slab ₹ 95/-	51	Wind Mill (Generator Model) ₹ 360/-
27	Glass Prism ₹ 78/-	52	Make your own Cell Kit ₹ 245/-
28	Inclined Mirrors (a) Images formed between two inclined mirrors $n = \frac{360}{\theta} - 1$ ₹ 298/- (b) Infinite Images formed between two parallel images ₹ 298/-	53	Over Flow Vessel (a) Metal Big Size ₹ 310/- (b) Plastic ₹ 30/-
		54	Lactometer ₹ 35/-
		55	Sun Dial Metal ₹ 825/-
		56	Bramaha Press for Pascal's Law ₹ 175/-
		57	Tuning Forks (a) Set of 8 Chrome Plated Heavy ₹ 395/- (b) Individual Fork ₹ 65/- (c) Rubber Pad ₹ 15/- (d) Rubber Hammer ₹ 85/-





Dynamo AC DC



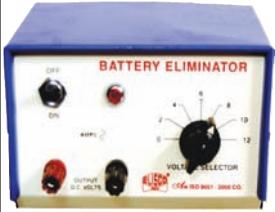
Ohm's Law



Centrifuge Machine



Battery Eliminator



Code No.	TITLE	Code No.	TITLE
58	Platinum Loop	₹ 140/-	83 Resonance Apparatus
59	Metal Cylinders	₹ 240/-	All metal fitted with Stainless Steel pipe and reservoir with rubber tubing on heavy metal base
60	Center of Gravity set of 3	₹ 335/-	84 Potentiometer
61	Newton's Law Apparatus (a) 1st Law or (b) 2nd Law (c) 3rd Law	₹ 335/- ₹ 395/-	₹ 625/- One meter long laminated board with jockey
62	Leclanche Cell	₹ 225/-	85 Rheostat (a) Aluminium Parts
63	Copper Voltmeter	₹ 295/-	₹ 595/- (b) Brass Parts
64	Daniel Cell	₹ 295/-	86 Dynamo: AC & DC on base
65	Copper Calorimeter	₹ 225/-	₹ 555/-
66	Water Voltameter	₹ 235/-	87 Aneroid Barometer
67	Optical Bench Wooden one meter long with accessories	₹ 750/-	₹ 550/-
68	Wave Motion Apparatus: with 18 pins to demonstrate Longitudinal & Transverse waves	₹ 970/-	88 Ohms Law Apparatus
69	Electric Motor with colour disc Heavy duty	₹ 248/-	89 Screw Jack Model
70	Bucket and Cylinder	₹ 80/-	90 Gear Model on board
71	Conduction Apparatus: Four different Metals in box	₹ 324/-	91 Solar Water pump
72	Bi-metal Strip:	₹ 115/-	92 Hooks Law Apparatus
73	Centrifuge Machine	₹ 445/-	93 U Tube: Manometer on stand
74	Ball & Ring Apparatus : Brass with wooden handle	₹ 165/-	
75	Hydrometer (a) For Liquids	₹ 70/-	CHEMISTRY
	(b) Nicholson Hydrometer Brass demo	₹ 300/-	
76	Plug Key	₹ 85/-	Chemical Kit: P.O.R
77	Tap Key	₹ 85/-	Elements Flash Cards Set P.O.R
78	Faraday's Law (three in one) to demonstrate lenz law, Faraday's Law and Galvanometer	₹ 650/-	GLASSWARE
79	Battery Eliminator 2 to 12volts, 2 amps in metal box	₹ 975/-	96 Beakers Borosilicate Glass (a) 100ml
80	Meters: Moving Coil Meters on stand fitted with Terminals Model No.EDM- 80, Acrylic front panel (a) Ammeter	₹ 245/-	₹ 30/- (b) Voltmeter
	(b) Voltmeter	₹ 245/-	₹ 50/- (c) Galvanometer
	(c) Galvanometer	₹ 245/-	₹ 90/-
81	Dip Circle All wooden with magnetized needle	₹ 1395/-	97 Conical Flask: 250ml-Borosilicate Glass
82	Joules Calorimeter	₹ 315/-	₹ 75/-
			98 Flat Bottom Flask: 250ml-Borosilicate Glass
			₹ 75/-
			99 Round Bottom Flask: 250ml-Borosilicate Glass
			₹ 75/-
			100 Volumetric Flask Borosilicate (a) 100ml
			₹ 80/- (b) 250ml
			₹ 110/- (c) 500ml
			₹ 175/-
			101 Test Tube Borosilicate (a) Size 15x125mm
			₹ 10/- (b) Boiling Tubes 25x150mm
			₹ 18/-
			102 Pipette Borosilicate 20ml
			₹ 48/-
			103 Burette Borosilicate 50ml
			₹ 128/-
			104 Separating Funnel Borosilicate Glass 250ml
			₹ 175/-
			105 Glass Funnels 3"
			₹ 50/-
			106 Delivery Tubes
			₹ 25/-
			107 Specific gravity Bottles (50 ml)
			₹ 70/-



Code No.	TITLE	Code No.	TITLE
108	Thistle Funnel Glass	₹ 50/-	142 Filter Paper Sheets ₹ 25/-
109	Watch Glass Grounded Edges	₹ 10/-	143 Tongs: Stainless Steel 6" ₹ 85/-
110	Droppers Glass with Rubber teeth	₹ 15/-	144 Beehive Shelves Porcelain ₹ 45/-
111	Capillary Tubes Glass	₹ 30/-	145 Staining Rack ₹ 195/-
112	Ganongs Photometer	₹ 115/-	(Stand for Reagent Bottles)
113	Lift Pump Borosilicate	₹ 175/-	146 Test Tube Holder ₹ 30/-
114	Water Level Apparatus	₹ 125/-	Brass with wooden Handle
115	Distillation Apparatus Borosilicate Glass with rubber cork		147 China Dish Porcelain ₹ 29/-
	(a) Fractional Distillation Apparatus	₹ 350/-	148 Deflagrating Spoon ₹ 60/-
	(b) Distillation Apparatus Separation of two miscible liquids by distillation	₹ 700/-	All Brass/ Stainless Steel
116	Measuring Cylinder Glass Borosilicate		149 Separating Funnel Holder ₹ 80/-
	(a) Cap. 50ml	₹ 110/-	150 Bunsen Burner ₹ 195/-
	(b) Cap. 100ml	₹ 140/-	(a) Without stop cock ₹ 245/-
	(c) Cap. 250ml	₹ 185/-	(b) With stop cock
	(d) Cap. 500ml	₹ 250/-	151 Retort Stand ₹ 350/-
	(e) Cap. 1000ml	₹ 525/-	with Clamp & Boss Head, Ring, of Size 7x5" thick Iron plate powder coated paint and 24" long Chrome plated rod
117	Diffusion of Gases Set	₹ 175/-	152 Burette Clamp for the above ₹ 75/-
118	Reagent Glass Bottles	₹ 48/-	153 Tripod Stand ₹ 85/-
POLYTHENE WARE			
119	Beaker	₹ 60/-	154 Structure of Atom - Model ₹ 525/-
120	Measuring Cylinder	₹ 120/-	155 Atomic/Molecular Models: Set of 120 balls ₹ 495/-
121	Burette 50ml	₹ 320/-	
122	Spatula	₹ 19/-	156 Crystal Model Set ₹ 185/-
123	Trough transparent	₹ 155/-	(a) Diamond ₹ 185/-
124	Funnels	₹ 10/-	(b) Sodium Chloride ₹ 185/-
125	Petri dish	₹ 30/-	(c) Graphite ₹ 185/-
126	Kipps Apparatus:	₹ 850/-	
127	Test Tube Stand	₹ 28/-	
128	Test Tube Stand Round	₹ 175/-	
129	Test Tube Peg Rack (for 50)	₹ 210/-	
130	Wash Bottles Plastic	₹ 32/-	
131	Gas Jar / Specimen Jar	₹ 55/-	
GENERAL ITEMS			
132	Spirit Lamp: Stainless Steel Heavy type	₹ 55/-	
133	Wire Gauge: with asbestos in centre with frame	₹ 15/-	
134	Asbestos Pad with frame	₹ 20/-	
135	Rubber Corks: Assorted	₹ 10/-	
136	Cork Borer Set: Brass Chrome Plated	₹ 225/-	
137	Plastic Tubing Per Meter	₹ 15/-	
138	Litmus Paper Red	₹ 18/-	
139	Litmus Paper Blue	₹ 18/-	
140	Universal Indicator Paper	₹ 74/-	
141	Filter Paper Circles Per Packet	₹ 74/-	
NEW MODELS			
157	Bucky Ball model c-60	₹ 1775/-	
158	Satellite model working with jewel's light fitted on Meta Box	₹ 1025/-	
159	Structure of Atoms in Show Case	₹ 525/-	
160	Orbit of atoms in Show case	₹ 675/-	
161	Nuclear Fusion model in Show Case	₹ 800/-	
162	Covalent bond in water molecules in showcase	₹ 850/-	
163	Day & Night apparatus Electrical working model	₹ 650/-	
164	Solar & Lunar eclipse Electrical working model	₹ 850/-	
165	Phase of Moon Apparatus Electrical working model	₹ 990/-	
166	Solar System Electrical working model	₹ 1950/-	

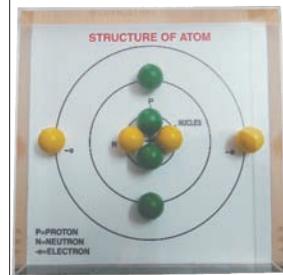
Spirit Lamp



Test Tube Peg Rack



Structure of Atom



Atomic Model





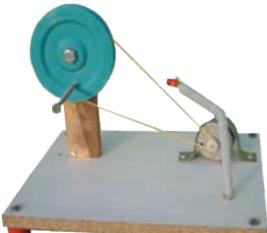
Compound Microscope



**Human
Digestive
System**



DC Generator



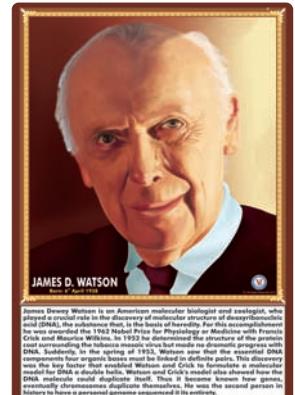
Solar Energy Kit



Code No.	TITLE	Code No.	TITLE
167	Blast furnes Model in Show Case	₹ 1625/-	SCIENCE ACTIVITY & PROJECT KITS With Working Manual
168	Electric motor in acrylic	₹ 875/-	197 Fun with Static Electricity: ₹ 225/- Includes about 35 activities on the theme
169	Generator model 220v	₹ 1900/-	198 Hello Magnets: ₹ 420/- Kit with 26 experiments on Magnetism
170	Dynamo Model in acrylic	₹ 850/-	199 Basics in Electricity: ₹ 380/- 13 Interesting Battery based activities
171	Traffic Light Model with 12 L.E.D light	₹ 1775/-	200 Fun with Electro-Magnetism: ₹ 500/- Over 40 activities using Electromagnet, DC motor, Magnets and bulb.
172	Covalent bond in Hydrogen Molecules in Show Case	₹ 725/-	201 Electronics for fun: ₹ 500/- Kit with 40 projects/ activities using timer IC, Ic555. No soldering required
173	Space Shuttle in Acrylic Show Case	₹ 2175/-	202 Fun with Sound ₹ 260/-
174	Structure of Sun with Base	₹ 1200/-	203 Easy Optics: ₹ 500/- Ideal for 8th - 12th std. Can perform 26 expts. using Lenses, Prism, Slab etc
175	Structure of Earth with Base	₹ 1200/-	204 Wonders in Physics: 11physics bases Toys for projects, fun and excitements ₹ 295/-
176	Petroleum Purification Model in Acrylic	₹ 3500/-	
177	D.N.A Model on stand	₹ 875/-	
178	R.N.A Model on stand	₹ 875/-	
179	River in Action model	₹ 1500/-	
180	Fault and Fold model	₹ 2150/-	
181	Earthquake model	₹ 1450/-	
BIOLOGY			
182	Compound Microscope	₹ 3750/-	ENERGY RELATED PROJECTS
183	Dissection Microscope Brass parts	₹ 885/-	205 DC Generator: ₹ 360/- Make a hand operated generator & show glow of LED by generating electricity
184	Mitosis Slides: Set of 5 in slide box	₹ 170/-	206 Wind mill (Generator model): ₹ 360/- Generate electricity by manual rotating. A fan mountain on a tower like wind mill.
185	Meiosis Slides: Set of 12 in slide box	₹ 250/-	207 Electricity from Speed Breaker: ₹ 360/- Speed breakers can be used to generate electricity to glow street lights
186	Human Torso: Model	₹ 1150/-	208 Electricity from Solar Energy: ₹ 500/- Hold the Solar panel in Sun light or near Incandescent bulb and fan spins.
187	Human Anatomy: Fibre (Each Model) Models on Stand: Brain, Heart, Kidney, Lungs & Eye	₹ 205/-	209 Electricity from Solar Energy: ₹ 800/- (Multiple)
188	Human Anatomy: Fibre (Each Model) Models on Board: Human Digestive system, Excretory, Respiratory, Circulatory, Teeth, Tongue, Nose, Liver, Skin, Ear, Reproductive Male, Reproductive Female	₹ 320/-	210 Electricity from Flowing Water: ₹ 500/- Hold the water turbine under flowing water and electricity is generated
189	Human Skeleton	₹ 190/-	211 Electricity from Lemon: ₹ 100/- Connect several lemons by Zinc, Copper Plates and generate electricity.
	(a) Plastic Small Size	₹ 625/-	
	(b) Plastic Medium Size	₹ 1850/-	
	(c) Fibre Big Size		
190	Magnifying Lens	₹ 120/-	PHYSICS BASED PROJECTS
191	Ganongs Light Screen	₹ 115/-	212 Bell making kit: ₹ 325/- activities using Electromagnet. Make a Buzzer along with other activities.
192	B.P Apparatus	₹ 2475/-	213 Electrolysis Kit ₹ 280/-
	(a) Digital	₹ 495/-	
	(b) Aneroid-Dial type		
193	Plain Slides: per Box	₹ 60/-	OTHERS
194	Cover Slips	₹ 35/-	214 Hydro Power Model ₹ 1200/-
195	Forceps	₹ 25/-	215 Bio Gas Plant Model ₹ 1200/-
	(a) Small	₹ 95/-	216 Water Turbine Model ₹ 1800/-
	(b) Long		217 Solar Energy Educational Kit ₹ 1500/-
SIMPLE PROJECTS			
196	Floating Magnets: Arrangement of Magnets to float a pencil. Fitted with two similar Magnets.	₹ 100/-	

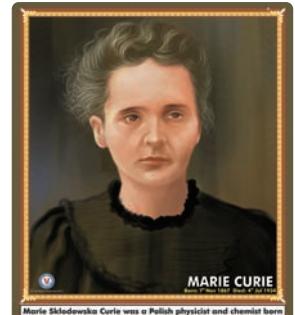


Code No.	TITLE	Code No.	TITLE	
NOBEL PRIZE WINNERS				
SP-55	Sir Alexander Flammig (Physician & Bacteriologist)	SP-106	Niels Ryberg Finsen (Physician)	
SP-26	Albert Einstein (Physicist)	SP-146	Robert Koch (Physician & Bacteriologist)	
SP-63	Antoine Henri Becquerel (Physicist)	SP-14	Sir Ronald Ross (Physician & Zoologist)	
SP-8	Antonie van Leeuwenhoek	SP-145	S.A Waksman (Microbiologist)	
SP-96	Arthur Kornberg (Microbiologist)	SP-164	Stanley Kohen (Bacteriologist)	
SP-174	Cesar Milstein (Molecular Biologist)	SP-107	Subramanyam Chandrasekhar (Astrophysics & Astronomer)	
SP-97	Edward Lawrie Tatum (Geneticist)	SP-167	Thomas Hunt Morgan (Geneticist)	
SP-68	Sir Edward Victor Appleton (Physicist)	SP-172	Venkatraman Ramakrishnan (Chemist)	
SP-176	Elie Metchnikoff (Biologist, Zoologist)	SP-168	Wilhelm Conrad Roentgen (Physicist)	
SP-77	Emil Theodor Kocher (Surgeon)	SP-181	Wilhelm Ostwald (Chemist)	
SP-58	Ernest Rutherford (Chemist & Physicist)	SP-37	William Ramsay (Chemist)	
SP-162	Erwin Rudolf J.A. Schrodinger	SP-260	Enrico Fermi (Physicist)	
SP-66	Francis Crick (Biochemist & Biophysist)	SP-263	Richard Smalley (Chemist)	
SP-99	Frederick Chapman Robbins (Pediatrician & Virologist)	PHYSICISTS		
SP-101	Fritz Albert Lipmann (Biochemist)	SP-26	Albert Einstein	
SP-103	George Wells Beadle (Geneticist)	SP-61	Alessandro Volta	
SP-178	Georges J.F. Kohler (Biologist)	SP-143	Anders Celsius	
SP-104	Hans Adolf Krebs (Biochemist)	SP-63	Anton Hnery Bekuerel	
SP-33	Dr. Hargobind Khorana (Molecular Biologist)	SP-8	Antonie Van Leeuwenhoek	
SP-160	Hermann Joseph Muller (Geneticist)	SP-25	Archimedes	
SP-105	Ivan Petrovich Pavlov (physiologist, Psychologist and Physician)	SP-57	Benjamin Franklin	
SP-48	Sir J.J. Thomson (Physicist)	SP-65	Sir Benjamin Thompson Rumford	
SP-155	James Batcheller Sumner (Biochemist)	SP-88	Blaise Pascal	
SP-67	James D. Watson (Geneticist & Biophysicist)	SP-23	Sir C.V. Raman	
SP-156	John Howard Northrop (Biochemist)	SP-42	Dmitri Ivanovich Mendeleev	
SP-163	Joshua Lederberg (Molecular Biologist & Genitivist)	SP-68	Edward Victor Aplaton	
SP-179	Karl Landsteiner (Biologist)	SP-58	Ernest Rutherford	
SP-180	Kary Mullis (Biochemist)	SP-21	Galileo Galilei	
SP-29	Marie Curie (Physicist & Chemist)	SP-153	Georg Simon Ohm	
SP-56	Marshall Warren Nirenberg (Biochemist and Geneticist)	SP-50	Gilbert Newton Lewis	
SP-73	Max Planck (Physicist)	SP-86	Gottfried Leibniz	
SP-159	Melvin Ellis Calvin (Chemist)	SP-158	Gustav Robert Kirchhoff	
SP-49	Niels Bohr (Physicist)	SP-183	Henry Cavendish	
		SP-24	Dr. Homi Jahangir Bhabha	
		SP-38	Dr. Humphry Davy	
		SP-22	Sir Issac Newton	
		SP-48	Sir J.J. Thomson	
		SP-18	Sir Jagdish Chandra Bose	
		SP-69	James Clark Maxwell	



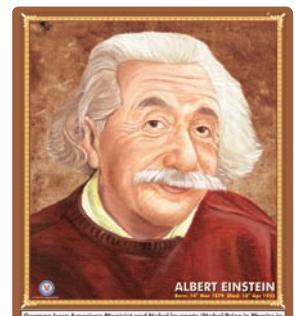
JAMES D. WATSON
Born 6 April 1928

James Dewey Watson is an American molecular biologist and zoologist, who played a key role in the discovery of the structure of deoxyribonucleic acid (DNA), the substance that is the basis of heredity. For this accomplishment he received the Nobel Prize in Physiology or Medicine in 1962, along with Francis Crick and Maurice Wilkins. In 1953 he determined the structure of the proteinase inhibitor ribonuclease. In 1957 he was elected a fellow of the Royal Society. In 1962 he was elected a fellow of the Royal Society of Medicine. Watson's work on DNA, especially his proposal that DNA could replicate itself, thus it became known new genes, established the field of molecular biology. He was the second person in history to have a personal genome sequenced. It is entirely



MARIE CURIE
Born 14 Nov 1867 Died 4 Jul 1934

Marie Skłodowska Curie was a Polish physicist and chemist born in Warsaw. Her co-discovery with her husband Pierre Curie of the radioactivity phenomenon, and her own independent research, were the best known stories in modern science for which they were rewarded with two Nobel Prizes. In 1903 she was honored with a Nobel Prize in Physics, this time in partnership with her husband Pierre Curie, for successfully combining pure and applied research in the field of radioactivity. She was the first and only woman to win two Nobel prizes in different science fields. Physics and Chemistry. She died in 1934, caused by her repeated exposure to radioactive material.



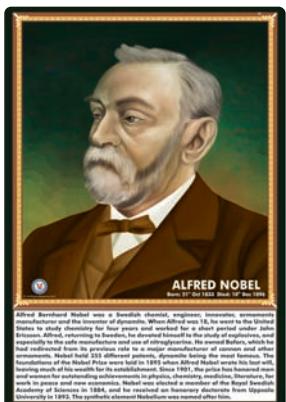
ALBERT EINSTEIN
Born 14 Mar 1879 Died 18 Apr 1955

German American Physicist and Nobel laureate (Nobel Prize in Physics in 1921), best known as the creator of the special and general theories of relativity. His theory of relativity revolutionized the way we understand space and time and is perhaps the most well-known scientific theory of the 20th century. He published more than 700 papers on a variety of subjects, mostly in the field of physics. In the first of these papers, on Brownian motion, he made predictions that were later confirmed by experiments. In 1905 he published a paper on the photoelectric effect, which explained the interaction of light and matter. In another paper in 1905, "On the Electrodynamics of Moving Bodies", contained what is now known as the theory of relativity. This paper also showed that the equivalence of mass and energy, thereby reconciling mechanical and electromagnetic world-views.

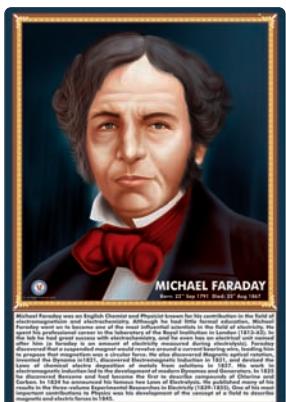


ERNEST RUTHERFORD
Born 30 Aug 1871 Died 19 Oct 1937

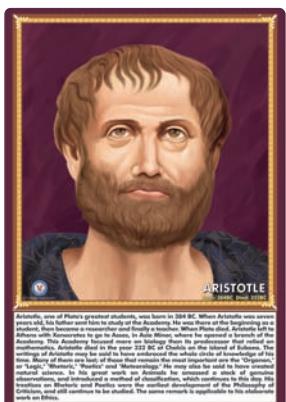
British-New Zealand physicist and chemist, known as the "father of nuclear physics". At the University of Manchester, he made many important discoveries about the nature of atoms. He discovered the first half-life of radioactive decay and daughter atoms. He also developed a model of the atom, in which electrons revolve around the nucleus like planets around the sun. He investigated the way that alpha particles scattered when they were exposed to bombarded this metal foil. In later years, Rutherford produced the first evidence of a particle with a positive charge, which he called a "proton". This experiment made him the first to receive a Nobel Prize in Chemistry. Rutherford was knighted in 1914 and was appointed to the Order of Merit in 1925. He died in 1937 at the age of 66.



Born 27 Oct 1824 Died 10 Dec 1891
Alfred Bernhard Nobel was a Swedish chemist, engineer, inventor, and manufacturer and the inventor of dynamite. When Alfred was 18, he went to the United States to study chemistry for four years, and worked for a short period under John D. Wired. Nobel's early work involved the manufacture of nitro-glycerine, which was especially to the safe manufacture and use of nitroglycerine. He invented Bechler, which had reduced, from its previous role as a major manufacturer of canons and other armaments, to a minor manufacturer of dynamite and other explosives. The foundations of the Nobel Prize were laid in 1865 when Alfred Nobel left his will, stipulating that the money from his estate be used to award prizes to individuals and women for outstanding achievements in physics, chemistry, medicine, literature, his work in peace and new discoveries. Nobel was elected a member of the Royal Swedish Academy of Sciences in 1867 and received an honorary degree from the University of Upsala in 1873. The physical element Nobel was named after him.



Michael Faraday was an English Chemist and Physical scientist known for his contributions in the field of electromagnetism, electrochemistry, and magnetohydrodynamics. He was born on September 22, 1791, and died on March 25, 1867. Faraday went on to become one of the most influential scientists in the field of chemistry and physics. He is best known for his work on the law of electrolysis, the law of magnetic induction, and the law of conservation of energy. He also made significant contributions to the study of electromagnetism, and he even has an eponymous unit named after him. Faraday's work on electromagnetism led to the development of the first electric motor and generator. In 1820, he discovered the law of electrolysis, which states that the amount of a substance that can be reduced or oxidized by an electric current is proportional to the time it takes for the reaction to occur. This discovery laid the foundation for the development of batteries and generators. In 1821, he discovered the law of magnetic induction, which states that a magnetic field can induce an electric current in a conductor. In 1824 he discovered the law of conservation of energy, which states that energy cannot be created or destroyed, only converted from one form to another. One of his most significant contributions to science was his development of the concept of a field. It is described as a region where a force acts on a charged particle. This concept is fundamental to the study of electromagnetism and has had a profound impact on our understanding of the physical world.



Arius, one of Plato's greatest students, was born in 384 BC. When Aristotle died he was still a student, but his father sent him to study at the Academy. He was there at the beginning of its decline, then became a researcher and a teacher. When Plato died, Aristotle left to found his own school, the Lyceum, in Athens. In 335 BC he became the teacher of Alexander the Great. This Academy increased more than before by his professorship that relied on his original ideas. His ideas were very important for the development of philosophy. The writings of Aristotle may be said to have covered the whole circle of knowledge of his time. Many of them are lost; of those that remain the most important are "Organon", "Physics", "Metaphysics", "Ethics", "Politics", "History of Animals", "Aesthetics", "Natural science". In his great work on Animals he composed a stock of genuine observations and facts which were of great value for the development of zoology. His treatises on History and Poetry were the earliest development of the Philosophy of history. His treatise on Poetics continues to be studied. The same remark is applicable to his classification of ethics.



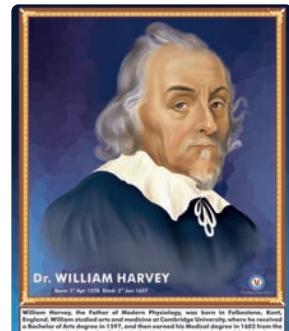
Born: 14 Jun 1908 Died: 26 June 1942

Carl Lineweaver was an Australian physiologist. He is noted for his development of the theory of V-susceptibility and his researches in the field of immunology. From 1931 to 1932 he conducted research at the National Institute of Child Health and Human Development under Hormann End-Flieger, Eugene Rauschert and Alexander Tamm. In 1932 he became a member of the staff of the Department of Immunology and Bacteriology at the University of Melbourne. In 1933 he became a member of the staff of the Department of Biological Sciences at the University of Melbourne. He is noted for investigating three blood groups in Australia, the first being the O group. He also studied the relationship between blood groups and disease. With Alexander Tamm he conducted research on the chemistry of antigens and antibodies and other immunological processes.

Code No.	TITLE	Code No.	TITLE
SP-171	James Watt	SP-29	Marie Curie
SP-31	John Dalton	SP-159	Melvin Ellis Calvin
SP-47	John Tyndall	SP-30	Michael Faraday
SP-71	Johns Kepeler	SP-49	Neils Bohr
SP-184	Joseph Black	SP-32	Dr. Prafull Chandra Ray
SP-70	Joseph Gay Lussac	SP-28	Robert Boyle
SP-46	K.S. Krishnan	SP-186	Svante August Arrhenium
SP-87	Leonhard Euler	SP-172	Venkatraman Ramakrishnan
SP-4	Louis Pasteur	SP-181	Wilhelm Ostwald
SP-29	Marie Curie	SP-37	William Ramsay
SP-73	Max Plank	SP-173	Wlliam Crookes
SP-45	Meghand Saha	SP-262	Fritz Strassman
SP-49	Niels Bohr	SP-263	Richard Smalley
SP-64	Otto Von Guericke	BIOLOGISTS	
SP-59	Dr. Raj Ramanna	SP-55	Sir Alexander Flammung
SP-44	Satyendra Nath Bose	SP-17	Alferd Russel Wallace
SP-162	Schrodinger	SP-8	Antonie Van Leeuwenhoek
SP-34	Dr. Shanti Swaroop Bhatnagar	SP-41	Aristotle
SP-107	Subramanyam Chandrasekhar	SP-39	August Weismann
SP-27	Thomas Alva Edison	SP-19	Dr. Birbal Sahni
SP-52	Dr. Vikram Ambalal Sarabhai	SP-43	Burbank Luther
SP-168	Wilhelm Conard Roentgen	SP-9	Carl Von Linnaeus
SP-173	Wlliam Crookes	SP-174	Cesar Milstein
SP-260	Enrico Fermi	SP-16	Charles Bell
SP-261	Leo Szilard	SP-1	Charles Robert Darwin
CHEMISTS		SP-10	Edward Jenner
SP-62	Alfred Nobel	SP-13	Edwin Ray Lankester
SP-185	Amedeo Avogadro	SP-176	Elie Metchnikoff
SP-36	Antoine Laurent Lavoisier	SP-66	Francis Crick
SP-42	Dmitri I. Mendeleeff	SP-178	Georges J.F. Kohler
SP-58	Ernest Rutherford	SP-2	Gregor Mendel
SP-151	Friedrich Karl Wohler	SP-33	Dr. Har Govind Khorana
SP-101	Fritz Albert Lipman	SP-154	Herbert W. Boyer
SP-50	Gilbert Newton Lewis	SP-15	Hugo De-Vries
SP-183	Henry Cavendish	SP-18	Sir Jagish Chandra Bose
SP-38	Sir Humphry Davy	SP-67	James D. Watson
SP-31	John Dalton	SP-11	Sir James Young Simpson
SP-48	Sir J.J. Thomson	SP-3	Jean Baptist Lamarck
SP-184	Joseph Black	SP-7	Joseph Lister
SP-70	Joseph Gay Lussac	SP-179	Karl Landsteiner
SP-40	Joseph Priestley		

Code No.	TITLE
SP-6	Leonardo-Da-Vinci
SP-4	Louis Pasteur
SP-74	Panchannan Maheshwari
SP-14	Sir Ronald Ross
SP-20	Sunder Lal Hora
SP-12	Thomos Henry Huxley
SP-5	Dr. William Harvey
GENETICISTS	
SP-97	Edward Lawrie Tatum
SP-103	George Wells Beadle
SP-2	Gregor Mendel
SP-160	Hermann Joseph Muller
SP-140	J.B.S. Haldane
SP-67	James D. Watson
SP-163	Joshua Lederberg
SP-138	Dr. M.S. Swaminathan
SP-165	Stanley Norman Kohen
SP-167	Thomas Hunt Morgan
MICROBIOLOGISTS	
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SP-149	Andre Michel Lwoff
SP-8	Antonie van Leeuwenhoek
SP-96	Arthur Komberg
SP-174	Cesar Milstein
SP-175	Charles Chamberland
SP-177	Fredrick Griffith
SP-100	Friedrich Loeffler
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SP-108	Martinus Beijerinick
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SP-145	S.A Waksman
SP-164	Stanley Kohen
SP-144	Winogradsky Sergei N
BIOCHEMISTS	
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SP-104	Hans Adolf Krebs
SP-33	Dr. Har Govind Khorana
SP-155	James Batcheller Sumner

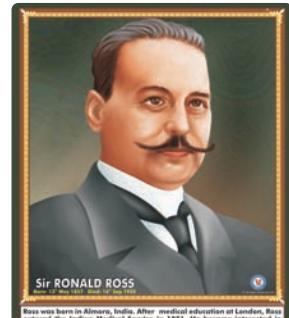
Code No.	TITLE
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SP-163	Joshua Lederberg
SP-180	Kary Mullis
SP-157	Stanley Wendell Meredith
SP-137	Dr. Yellapragada Subbarao
ZOOLOGISTS	
SP-13	Edwin Ray Lankester
SP-176	Elie Metchnikoff
SP-99	Frederick Chapman Robbins
SP-100	Friedrich Loeffler
SP-3	Jean Baptist Lamarck
SP-14	Ronald Ross
SP-20	Sunder Lal Hora
BOTANISTS	
SP-9	Carl Von Linnaeus
SP-19	Dr. Birbal Sahni
SP-138	Dr. M.S. Swaminathan
SP-15	Hugo De-Vries
SP-3	Jean Baptist Lamarck
SP-43	Burbank Luther
SP-74	Panchannan Maheshwari
SP-109	Robert Harding Whittaker
SP-18	Sir Jagish Chandra Bose
PHYSICIANS / SURGEONS	
SP-76	Acharya Charak
SP-81	Acharya Susrutha
SP-96	Arthur Komberg
SP-39	August Weismann
SP-16	Sir Charles Bell
SP-10	Edward Jenner
SP-13	Sir Edwin Ray Lankester
SP-99	Frederick Chapman Robbins
SP-136	Henry Gray
SP-94	Hippocrates
SP-105	Ivan Petrovich Pavlov
SP-11	Sir James Young Simpson
SP-184	Joseph Black
SP-7	Joseph Lister
SP-179	Karl Landsteiner



Dr. WILLIAM HARVEY

William Harvey, the Father of Modern Physiology, was born in England. William studied arts and medicine at Cambridge University. He received his Arts degrees in 1577, and then earned his Medicine degree in 1580. He also studied at Padua [Italy]. His studies were conducted under the direction of Gasparo Aselli. Harvey's first major contribution came from his observations of the heart. He named the basic principle of circulation "the circulation of blood," believing that it was pushed throughout the body by the heart.

Anatomia de Motu Cordis et Sanguinis in Animalibus (1628) - *Motus Cordis*: Already these where in *Exercitaciones de Generatione et Generationes de Animalium*, 1615!, but he was extremely skeptical of Aristotle's theory of matter. He proposed that all animals originally came from an egg.



Sir RONALD ROSS

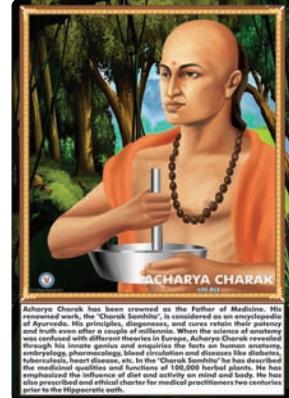
Babu was born in Almora, India. After medical education at Lansdowne, Babu entered the Indian Medical Service in 1881. He became interested in leprosy and in 1894 approached Patrick Manson with a request to show him how to detect the causative parasite of leprosy. When Robert Koch had recently demonstrated the tubercle bacillus in 1882, Manson in 1897 he succeeded in identifying leprosy parasites (plasmoidia) in leprosy patients by inoculating leprosy lesions with blood from infected patients. He also demonstrated that the leprosy bacillus was responsible for leprosy morbus in the saliva of glands of the mosquito, thus proving that the parasite was transmitted to the victim's body through the bites of infected mosquitoes. His findings were published in the 1902 Nobel Prize for Physiology or Medicine and was knighted in 1911.



Panchanan Maheshwari

Panchamukhi Maheshwari was born, in Indian, Rajasthan. Maheshwari took up research in agriculture and became a teacher of agriculture. He was a good teacher and had many students who became engineers. He decided to carry out research in the field of soil using very expensive equipment. His efforts were crowned with success. However, he did not have the facilities to publish his work. He approached the government for help in the preparation and publication of his papers. Maheshwari's technique immediately opened up new opportunities for the government. The government invited him to work at the Central Soil Survey Laboratory. His research work on the use of plant hormones in agriculture and horticulture is proving to be of immense help to plant breeders. In his honour they named the Maheshwari Research Station at Deemed University, Jaipur.

Panchamukhi, thus, researched as an entrepreneur, he was well versed in other fields also. Maheshwari wrote two additional books. As an introduction to the study of agriculture, he wrote a book titled "Agriculture for All". He also wrote some books for schools to improve the standard of teaching life sciences. In 1921 he founded the Indian Society of Plant Morphologists. He was elected Fellow of the Royal Society in 1903.



ACHARYA CHARAK
600 BCE

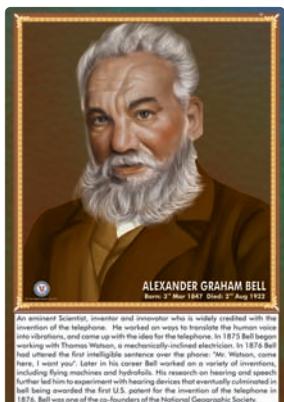
Acharya Charka has been crowned as the Father of Medicine. His renowned work, 'the Charka Samhita', is considered as an encyclopaedia of Ayurveda. His principles, diagnoses, and cures retain their potency and truth even after a couple of millenniums. When the science of anatomy was still in its infancy, Acharya Charka had already studied manhood through his genetic lineage and enquiries the facts about human embryology, pharmacology, blood circulation and diseases like diabetes, tuberculosis, heart disease, etc. In the 'Charka Samhita' he has described the relationship between mind and body. He has also emphasized the influence of diet and activity on mind and body. He has also prescribed ethical charter for medical practitioners two centuries prior to the Hippocratic oath.



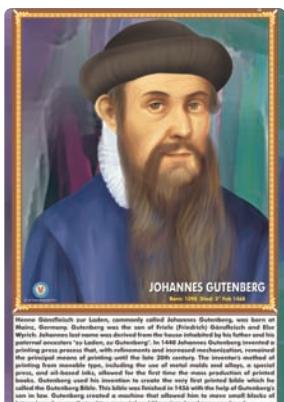
ARYABHATA
Born: 476 AD Died: 550 AD
Aryabhata was a great Indian Mathematician. He wrote a book by name Arya bhatia. The book covered mathematics, astronomy, spherical trigonometry, arithmetic, algebra and plane trigonometry. In his book he gave the value of Pi as 3.1416. He also explained that the sun rotates on its axis, creating day and night. (2) The moon is dark and does not give light, it reflects the light of the sun. (3) The shadow of the earth is dark and that of the moon is light because of shadows cast by the earth and the moon. Apart from many concepts of mathematics and astronomy, he also gave the following mathematical results: (a) He gave the value of Pi (π) as 3.1416 for first time. (b) He was the first mathematician who deduced the concept of "Table of Sines".



PYTHAGORAS
Born: 570 B.C. Died: 495 B.C.
An Greek philosopher and mathematician who founded the legend Pythagorean school. The school he founded was devoted to the study of numbers and the Pythagoreans saw as concrete, material objects. They studied figurate numbers, polygonal numbers, etc. They also studied the properties of numbers, etc., based on the patterns that numbers of regularly spaced dots formed. Pythagoreans also investigated the ratios of lengths corresponding to musical harmonies. Pythagoras also gives the Pythagorean Theorem, which bears his name. Pythagoras was born in Samos, Greece. He died in Crotona, Italy, in the Mediterranean Sea. Pythagoras was the son of Mnesarchus. Little is known about his early life.



ALEXANDER GRAHAM BELL
Born: 3rd Mar 1847 Died: 2nd Aug 1922
An American Scientist, inventor and innovator who is widely credited with the invention of the telephone. He worked on ways to transmit the human voice over telegraph wires. He came up with the idea for the telephone. In 1873 he met with Thomas Watson, a colleague of his. In 1876 Bell had uttered the first intelligible sentence over the phone. "Mr. Watson, come here, I want you." Later, Bell continued his work on other inventions, including flying machines and hydrofoils. His research on hearing and speech further led him to experiment with hearing devices that eventually culminated in the development of the first hearing aid. He died in New York City on 2nd August 1922. Bell was one of the co-founders of the National Geographic Society.



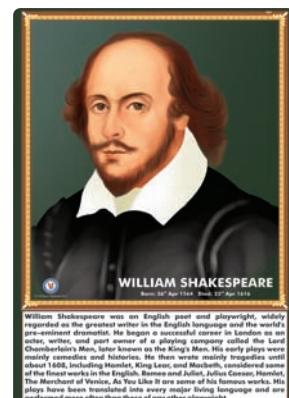
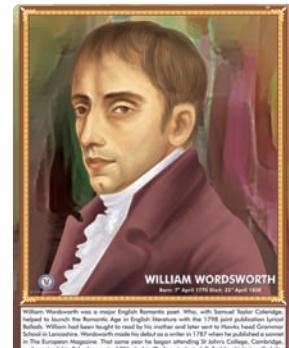
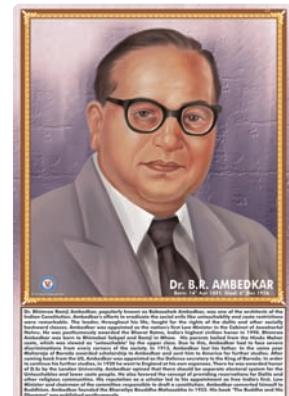
JOHANNES GUTENBERG
Born: 1398 Died: 3rd Feb 1468
A German Goldsmith, printer, commonly called Johannes Gutenberg and later known as Melis, Germany. Gutenberg was also son of Friele (Freidrich) Gutenberg and Elte Wyck. Johannes' 'Avi' father, an engraver, died when he was young. In 1446 he invented the printing press that, with refinements and increased mechanization, remained the primary method of printing books and documents until the mid-20th century. Printing from moveable type, including the use of metal molds and others, is a special feature of Gutenberg's printing process. He used his printing press to print the first printed book which he called the '42-line Bible'. This book was printed in Latin and contained 42 lines per page. Gutenberg created a machine that allowed him to move small blocks of letters in such a way that written material could be printed more precisely.

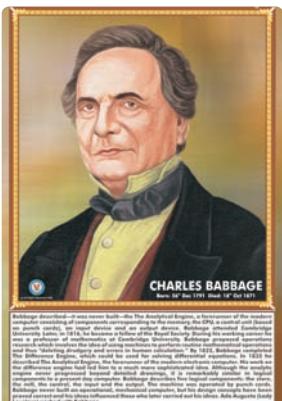
Code No.	TITLE	Code No.	TITLE
SP-180	Kary Mullis		INVENTORS
SP-56	Marshall Warren Nirenberg	SP-102	Graham Bell (Telephone)
SP-106	Niels Ryberg Finsen	SP-171	James Watt (Steam Engine)
SP-135	Paracelsus	SP-142	Johannes Gutenberg (Printing Press)
SP-146	Robert Koch	SP-141	John Logie Baird (Television)
SP-14	Sir Ronald Ross	SP-6	Leonardo-Da-Vinci (Painter-Mona lisa)
SP-166	Stephen Hales	SP-111	Schickard Wilhelm (Calculating Machine)
SP-77	Theodar Emil Kocher	SP-27	Thomas Alva Edison (Electric Bulb)
SP-5	Dr. William Harvey	SP-139	Wright Brothers (Aeroplane)
SP-92	William Osler		INDIAN SCIENTISTS
	GREAT MATHEMATICIANS		
SP-110	Abu Abdullah Mohammed Bin Musa Al Khawarizm	SP-51	Dr. A.P.J. Abdul Kalam
SP-25	Archimedes	SP-53	Aryabhata
SP-53	Aryabhata	SP-78	Bhaskaracharya II
SP-78	Bhaskaracharya II	SP-19	Dr. Birbal Sahni
SP-23	Sir C.V. Raman	SP-23	Sir C.V. Raman
SP-150	Daniel Bernoulli	SP-33	Dr. Har Govind Khorana
SP-79	Eukieides (Euclid)	SP-24	Dr. Homi Jahangir Bhabha
SP-98	Fibonacci	SP-18	Sir Jagish Chandra Bose
SP-152	G.F Bernhard Riemann	SP-46	K.S. Krishnan
SP-80	Georg Cantor	SP-72	Dr. Kalpana Chawla
SP-22	Sir Issac Newton	SP-45	Meghnad Saha
SP-82	J.C Friedrich Gauss Carl	SP-138	Dr. M.S. Swaminathan
SP-69	James Clark Maxwell	SP-74	Panchanan Maheshwari
SP-71	Johns Kepeler	SP-32	Dr. Prafull Chandra Ray
SP-85	Lady Ada Lovelace	SP-59	Dr. Raj Ramanna
SP-84	Laplace Pierre Simon	SP-187	Rakesh Sharma
SP-83	Largrange Joseph Louis	SP-14	Sir Ronald Ross
SP-86	Leibniz Gottfried	SP-44	Satyendra Nath Bose
SP-87	Leonhard Euler	SP-34	Dr. Shanti Swaroop Bhatnagar
SP-60	Nicholas Copernicus	SP-35	Srinivasa Aiyangar Ramanujan
SP-88	Pascal Blaise	Sp-107	Subramanyam Chandrasekhar
SP-89	Pierre De Fermat	SP-20	Sunder Lal Hora
SP-90	Pythagoras	SP-76	Acharya Charak
SP-91	Rene Descartes	SP-81	Acharya Susrutha
SP-93	Riemann Georg	SP-75	Varahamihira
SP-35	S. Ramanujam	SP-172	Venkatraman Ramakrishnan
SP-75	Varahamihira	SP-52	Dr. Vikram Ambalal Sarabhai
SP-95	Zeno Of Elea	SP-54	M. Visweswarya
SP-239	Omar Khayyam	SP-137	Dr. Yellapregada Subbarao
		SP-199	Dr. K.L. Rao (Engineer)



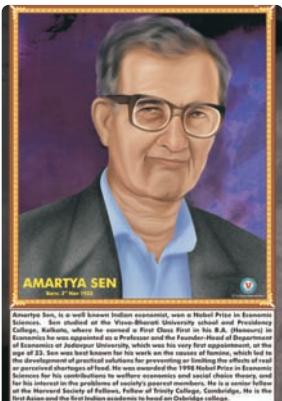
Code No.	TITLE
GREAT PERSONALITIES	
SP-169	Florence Nightingale (Mother of Modern Nursing)
SP-147	Dr. S. R. Ranganathan (Library Science)
SP-148	Melville Dewey (Library Science)
SP-161	Salim Ali (Ornithologist)
SP-189	Sunita Williams (Astronaut)
SP-200	Sir Arthur Cotton (Engineer)
SP-201	Amartya Sen (Economist)
SP-202	Neil Alden Armstrong
INDIAN LEADERS	
SP-51	Dr. A.P.J. Abdul Kalam
IL-1	Bal Gangadhar Tilak
IL-2	Rabindranath Tagore
IL-3	Swami Vivekananda
IL-4	Mahatma Gandhi
IL-5	Sardar Vallabh Bhai Patel
IL-6	Sarvepalli Radhakrishnan
IL-7	Moulana Abdul Kalam Azad
IL-8	Jawaharlal Nehru
IL-9	Dr. B. R. Ambedkar
IL-43	Jyotiba Phule
IL-10	Netaji Subhash Chandra Bose
IL-11	Lal Bahadur Shastri
IL-12	Shaheed Bhagat Singh
IL-15	Babu Jagjivan Ram
IL-16	Morarji Desai
IL-13	Mother Teressa
IL-14	Indira Gandhi
IL-21	Kasturba Gandhi
IL-18	Sarojini Naidu
IL-19	Rani Lakshmi Bai (Jansi Rani)
PRESIDENTS OF INDIA	
IL-22	Dr. Rajendra Prasad
IL-6	Sarvepalli Radhakrishnan
IL-23	Zakir Hussain
IL-24	V.V. Giri
IL-25	Muhammad Hidayatullah
IL-26	Fakhruddin Ali Ahmed

Code No.	TITLE
PRIME MINISTERS	
IL-27	Neelam Sanjiva Reddy
IL-28	Giani Zail Singh
IL-29	R. Venkataraman
IL-30	Shankar Dayal Sharma
IL-31	K.R. Narayanan
SP-51	A. P. J. Abdul Kalam
IL-32	Pratibha Patil
IL-44	Pranab Mukherjee
POETS & WRITERS	
IL-8	Jawaharlal Nehru
IL-33	Gulzarilal Nanda
IL-11	Lal Bahadur Shastri
IL-14	Indira Gandhi
IL-16	Morarji Desai
IL-35	Charan Singh
IL-17	Rajiv Gandhi
IL-36	V. P. Singh
IL-37	Chandra Shekhar Singh
IL-38	P. V. Narasimha Rao
IL-39	Atal Bihari Vajpayee
IL-40	H. D. Deve Gowda
IL-41	Inder Kumar Gujral
IL-42	Dr. Manmohan Singh
IL-45	Narendra Damodadas Modi
POETS & WRITERS	
SP-190	Santh Kabir
SP-192	Meerabai
SP-193	Jaishankar Prasad
SP-194	Maithili Sharan Gupt
SP-195	Munshi Premchand
SP-196	Abdul Rahim Khan-e-Khana
SP-197	Tulsidas
SP-198	R. K. Narayan
SP-240	Charles Deckens
SP-241	George Bernard Shaw
SP-242	John Keats
SP-243	T.S. Eliot
SP-244	William Wordsworth
SP-191	William Shakespeare

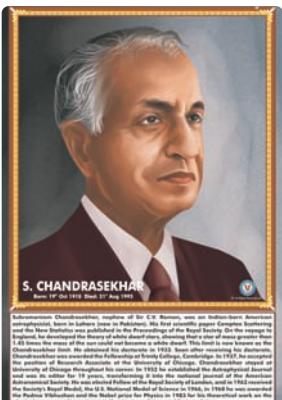




Neil Alden Armstrong is an entrepreneur, test pilot, aerospace engineer, United States Naval Aviator. He was the first person ever to set foot on the Moon. He started his flying lessons at the age of 13; was awarded a pilot's license on his 16th birthday. He pursued degrees in aeronautical engineering and served as a flight test engineer in the research laboratory in aerospace engineering at the University of Southern California. On December 15, 1968, Neil Armstrong and his crewmates, Michael Collins and Buzz Aldrin, became the first humans to land on the Moon. On July 20, 1969, Armstrong successfully landed the Eagle lunar module, becoming the first man to walk on the Moon. He was the mission commander of the Apollo 11 mission, landing mission on July 20, 1969. Armstrong immediately after the Apollo 11 mission, became the Director of Aerospace Engineering at the University of Southern California. In 1971, he became the Director of Aerospace Engineering at the University of Southern California.



Amartya Sen, is a well known Indian economist, was a Nobel Prize in Economics Sciences. Sen studied at the Visva-Bharati University school and Presidency College, Kolkata, where he received his First Class First in his B.A. (Honours) in Economics. He then moved to Cambridge as a Postgraduate student at the Department of Economics at Jodhpur University, which was his very first appointment, at the age of 23. Sen was best known for his work on the issues of famine, which led to the development of principles and methods for preventing the occurrence of real famines and droughts. He was awarded the 1998 Nobel Prize in Economics for his contributions to welfare economics and social choice theory, and for his interest in the problem of poverty and famine. He is a senior fellow of the Royal Society of London and of the Indian Academy of Sciences. He is the first Asian and the first Indian academic to teach at Cambridge college.



Sorenson, Chonostrophe, nephew of Dr C.K. Sorenson, was an Indian-born American who died in 1948. His research on the biology of the genus Chonostrophe and the genus *Stellaria* was published in the *Proceedings of the Royal Society*. On the request to his widow, he developed the theory of metapopulation dynamics which is now greater on the Chonostrophe line. He obtained his doctorate in 1923. Sorenson received many distinctions, including the title of Professor Emeritus at the University of Illinois. In 1952 he became a professor of Research Associate at the University of Chicago. Chonostrophe stayed at the University until his death in 1948. Since then the author has continued the work on Chonostrophe with his wife for 15 years. In 1962 he joined the Association of the Americas for the Protection of Natural Resources and in 1963 he became a member of the Palaeo-Vascular and the Botanical prize for Physics in 1952 for his theoretical work on

Code No.	TITLE	Code No.	TITLE
PSYCHOLOGISTS			
SP-205	Abraham Maslow	SP-112	Bayes Thomas (Method of automatic Controlling of loomby)
SP-206	Albert Bandura	SP-134	Berners-Lee, Tim ("Inventor of "www")
SP-207	Alfred Adler	SP-115	Boole George (Boolean Algebra)
SP-208	Alfred Binet	SP-118	Bush Vannevar (Hypertext - Memex)
SP-209	B. F. Skinner	SP-114	Charles Babbage (Analytical Engine)
SP-210	Carl Gustav Jung	SP-117	Clarke Edith (Graphical Calculator)
SP-211	Carl Rogers	SP-129	CoddEdgar - Ted.F (Father of Relational Database)
SP-212	Edward Lee Thorndike	SP-128	Diskstra Edsger Wybe ("GOTO" considerd harmful")
SP-213	Erich Fromm	SP-121	Godel Kurt (Godel's Incompleteness Theorems)
SP-214	Erik Erikson	SP-130	Hoare Anthony Tony C.A.R ("Father of "HOARE LOGIC")
SP-215	Francis Galton	SP-116	Hollerith Herman ((IBM) Punch Card -efficient way to store information)
SP-217	George Kelly	SP-122	Hopper Grace Murray (Designed & Developed First Compiler (COBOL) & Coined the term Computer bug)
SP-218	Gustav Fechner	SP-113	Jacquard Joseph Marie (Recording pattern of holes in a string of card)
SP-219	Hermann Ebbinghaus	SP-132	Knuth Donald ("Father of Digital typography "TEX & METAFONT")
SP-220	Ivan P. Pavlov	SP-131	Nelson Theodor - Ted Holm ("HYPERTEXT")
SP-221	Jean Piaget	SP-127	Salton Gerard Gerry (Foundation of Practical & Theritical Work in Information Retrieval)
SP-222	John B. Watson	SP-111	Schickard Wilhelm (Inventor of Caluclating Machine)
SP-223	Lewis Madison Terman	SP-125	Shannon Claude Elwood (Father of Information Theory)
SP-224	Sigmund Freud	SP-124	Turing Alan Mathison (Father of Modern Computer Science)
SP-225	Wilhelm Wundt	SP-133	Ullmann Jeffrey ("Automata Thoery, Compikers, Data Structures & Algorithrus")
SP-226	William James	SP-119	Von Newmann John (Father of Notion of Software)
GEOGRAPHERS			
SP-227	Sir L.D. Stamp	SP-123	Zuse Konrad (Constructed Worlds First Digital Computer 'Z1' and wrote Algorithmic Programming Language called 'Plankalkul')
SP-228	Jean Brunches		
SP-229	Alexander V. Humbolt		
SP-230	W.M. Davs		
SP-231	Friendric Ratgzel		
SP-232	Ellsworth Huntington		
SP-233	Vidal De La Blach		
STATICIANS			
SP-234	C.R. Rao		
SP-235	Karl Pearson		
SP-236	P.c. Mahalanobis		
SP-237	Sir Ronald Fisher		
COMPUTER SCIENCE & IT			
SP-120	Atanasoff John Vincent (First Automatic Electronic Digital Computer)		
SP-126	Backus John (Father of High Level Program Language FORTRAN)		