

Science & Technology

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2	Fundamentals of Chemistry	104
3	Fundamentals of Biology	162
4	Applied Sciences and Technology	259
5	Space Technology and Emerging Sciences	371
	Total Pages (including Questions)	500 + Pages

Test Questions after every part with explanations

Part	Topic	No Of Questions
1	Fundamentals of Physics	20
2	Fundamentals of Chemistry	20
3	Fundamentals of Biology	20
4	Applied Sciences and Technology	20
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	3	Work, Energy and Power - Conservation Laws
	4	Gravitation and Planetary Motion
	5	Properties of Matter - Elasticity, Surface Tension and Viscosity
	6	Heat and Thermodynamics - Temperature, Heat Transfer
	7	Kinetic Theory of Gases and Laws of Thermodynamics
	8	Oscillations and Waves - Simple Harmonic Motion
	9	Sound Waves - Properties and Applications
	10	Light and Optics - Reflection, Refraction and Interference
	11	Electromagnetic Spectrum and Applications
	12	Electricity and Magnetism - Current, Resistance and Magnetic Fields
	13	Electromagnetic Induction and AC Circuits
	14	Modern Physics - Atomic Structure and Quantum Mechanics
	15	Nuclear Physics - Radioactivity, Fission and Fusion
	16	Electronics - Semiconductors, Diodes and Transistors
	17	Communication Systems and Digital Electronics
	18	Lasers, Masers and Optical Fibers
Part II: Fundamentals of Chemistry	19	Introduction to Chemistry - Atomic Structure and Periodic Table
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	21	States of Matter - Gases, Liquids and Solids
	22	Solutions and Colligative Properties
	23	Chemical Thermodynamics and Equilibrium
	24	Chemical Kinetics and Catalysis
	25	Acids, Bases and Salts - pH and Buffer Solutions
	26	Electrochemistry - Electrolysis and Galvanic Cells
	27	Metallurgy - Extraction and Purification of Metals
	28	Non-metals and Their Compounds
	29	Organic Chemistry - Hydrocarbons and Functional Groups

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	33	Environmental Chemistry - Pollution and Green Chemistry
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	39	Evolution - Darwin's Theory and Evidence
	40	Classification of Living Organisms
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	44	Circulatory and Excretory Systems
	45	Nervous System and Endocrine System
	46	Reproduction and Development in Animals
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	50	Immunity and Vaccines
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