## PHYSICS .....

No	Name of Chapter	Focus Area Topics
1.	Physical World	1.2 Scope and Excitement of Physics
2.	Units And Measurement	2.2 The International System Of Units
		2.10. Dimensional Analysis and its applications
3.	Motion In A Straight Line	3.2 Position, Path Length And Displacement
		3.3 Average Velocity And Average Speed
		3.5 Acceleration
		3.6 Kinematic Equations For Uniformly Accelerated Motion
4	N. C. T. A. D.	4.2 Scalars And Vectors
	Motion In A Plane	4.10 Projectile Motion
	Laws Of Motion	5.5 Newton's Second Law Of Motion
5		5.7 Conservation Of Momentum
3		5.9.1 Friction
		5.10 Circular Motion
	Work, Energy And Power	6.3 Work
		6.4 Kinetic Energy
6		6.7 The Concept of Potential Energy
		6.8 The Conservation of Mechanical Energy
		6.11 Power
	C4	7.6 Angular Velocity And Its Relation With Linear Velocity
7	Systems	7.7 Torque And Angular Momentum
7	Of Particles And Rotational Motion	7.9 Moment Of Inertia
		7.10 Theorems of Perpendicular And Parallel Axes
	Gravitation	8.3 Universal Law of Gravitation
		8.5 Acceleration Due To Gravity of The Earth
8		8.6 Acceleration Due To Gravity Below And Above The
		Surface Of Earth
	Mechanical Properties Of Solids	9.3 Stress And Strain
9		9.4 Hooke's Law
		9.5 Stress Strain Curve
	Mechanical Properties Of Fluids	10.2.1 Pascal's Law
10		10.2.4 Hydraulic machines
		10.4 Bernoulli's Principle (10.4.1 to 10.4.4 not necessary)
11	Thermal Properties Of Matter	11.5 Thermal Expansion
		11.8 Change Of State
	Thermodynamics	12.5 First Law Of Thermodynamics
12		12.8 Thermodynamic Processes
		12.9 Heat Engines
13	Kinetic Theory	13.4 Kinetic theory of an ideal gas
	Oscillations	14.3 Simple Harmonic Motion
14		14.8.2 The simple pendulum
15	Waves	15.3 Displacement relation in a progressive wave
		15.4 The Speed Of A Travelling Wave
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## BOTANY

SL. NO.	CHAPTER NAME	FOCUS AREA
1	Chapter 1 BIOLOGICAL CLASSIFICATION	Table 2.1 Characteristics of the Five Kingdoms (R.H. Whittaker's Classification) 2.3 Kingdom Fungi (General characters of Fungi, page 22 and 23) 2.6 Viruses (page 25 and 26)
2	Chapter 3 PLANT KINGDOM	3.1 Algae (General characters of algae, page 30 to 32) and  Table 3.1 Divisions of Algae and their main characteristics(page 33)  3.2 Bryophytes (page 34 to 35)
3	Chapter 5 MORPHOLOGY OF FLOWERING PLANTS	<ul> <li>5.1 The Root</li> <li>5.1.2 Modifications of Root</li> <li>5.2 The Stem</li> <li>5.2.1 Modifications of Stem</li> <li>5.3 The Leaf</li> <li>5.4 The Inflorescence</li> <li>5.5 The Flower</li> <li>5.5.1 Parts of a Flower (5.5.1.1 to 5.5.1.4)</li> <li>5.9.1 Fabaceae (Floral characters and Floral Formula)</li> <li>5.9.3 Liliaceae (Floral characters and Floral Formula)</li> </ul>
4	Chapter 6 ANATOMY OF FLOWERING PLANTS	<ul> <li>6.1.1 Meristematic tissues</li> <li>6.1.2.2 Complex Tissues</li> <li>6.2.1 Epidermal Tissue System</li> <li>6.2.3 The Vascular Tissue System</li> <li>6.3.1 Dicotyledonous root</li> <li>6.3.2 Monocotyledonous root</li> <li>6.3.3 Dicotyledonous stem</li> <li>6.3.4 Monocotyledonous stem</li> <li>6.3.5 Dorsiventral (Dicotyledonous leaf)</li> </ul>
5	Chapter 8 CELL: THE UNIT OF LIFE	8.4 Prokaryotic cells 8.5.1 Cell Membrane 8.5.4 Mitochondria 8.5.5 Plastids 8.5.6 Ribosomes 8.5.10 Nucleus