

PHYSICS (Reduced / Non Evaluation Syllabus only for Academic Year 2020-21 only)

Note :

1. The topics in the following table are Deleted for the academic year 2020-21 as an exceptional case.
2. All boxes **EXCEPT 'Solved examples'** and **'Remember This'** are Deleted / Non evaluative For 2020-21 only

XI PHYSICS (54)

Sr No.	Page No	Article No	Portion Deleted for year 2020-21
Chapter 1 Units and Measurements			
1	3 to 5	1.3	Measurement of length
2	5	1.4	Measurement of Mass
3	5 to 6	1.5	Measurement of Time
4	8	1.7	Accuracy, Precision and Uncertainty in measurement
5	10 to 11	1.8.2	Combination of errors
Chapter 2 Mathematical Methods			
1	25 - 28	2.6	Introduction to Calculus
Chapter 3 Motion in a Plane			
1	30 - 36	3.2	Rectilinear Motion
Chapter 4: Laws of motion			
1	47	4.2	Aristotle's fallacy
2	48	4.3 only	Newton's laws of motion
4	52	4.5.2	Contact and non-contact forces
6	55, 56	4.6	Work energy theorem
7	56, 57	4.7	Principle of conservation of linear momentum
8	61	4.8.5	Loss in K.E....Use the result 4.11 without proof
10	63 to 64	4.9.1	Necessity of defining impulse
11	67	4.11.1	To prove that the moment of a couple is independent of the axis of rotation
12	72	4.13.4	characteristics of Centre of mass
Chapter 5 Gravitation			
1	84	5.4	Measurement of the Gravitational Constants
Chapter 6 Mechanical Properties of solid			
1	108	6.8	Hardness
2	109 - 111	6.9	Friction in Solid

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Chapter 7 Thermal Properties of Matter			
1	114	7.2	Temperature and Heat
2	115 -118	7.3	Measurement of Temperature
3	118 -121	7.4	Absolute Temperature and Ideal Gas Equation
4	129 -133	7.8	Change of State
Chapter 8: Sound Waves			
2	142 -144	8.2	Common Properties of all Waves
3	144 -145	8.3	Transverse Waves, Longitudinal Waves
4	149	8.6	Principle of Superposition of Waves
5	150	8.7.2	Reverberation
6	150 to 151	8.7.3	Acoustics
7	154	8.9.2	Listener Approaching a Stationary Source with velocity v
Chapter 9: Optics			
1	159	9.2	Nature of light
2	159 - 161	9.3	Ray optics and geometrical optics
4	162	9.4.2	Relation between f , u and v
5	166, 167	9.6.1 (ii, iii)	Prism binoculars and periscope
6	167	9.7	Till equation 9.2
11	175 to 177	9.9	Natural phenomena due to sunlight
12	183 - 184	9.11 (last part)	Telescope onwards, till the end.
Chapter 10 Electrostatics			
1	188	10.2	Electric charge
2	195	10.6.1	Electric field intensity due to point charge in a material medium
3	196	10.6.2	Practical way of calculating electric field
4	199	10.8	Proof of the Gauss' law
5	201 -204	10.9	Electric dipole
8	204	10.10	Continuous charge distribution
Chapter 11 Electric Current Through Conductors			
1	207	11.2	Electric current
2	207	11.3	Flow of current through a conductor

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3	207-208	11.4	Drift speed
4	209	11.5	Ohm's law
5	210	11.6	Limitations of the Ohm's law
6	210	11.7	Electrical energy and power
7	211-213	11.8	Resistors
8	213	11.9	Specific Resistance(Resistivity)
Chapter12 Magnetism			
1	224-225	12.4	Gauss' Law of Magnetism
Chapter13: Electromagnetic Waves and Communication System			
3	234-235	13.3.5-13.3.7	Ultraviolet Rays, X & Gamma Rays
5	239	13.6	Modulation
Chapter 14 Semiconductors			
1	254	14.8	Semiconductor devices

Note Due to the Covid 19 pandemic situation and the social distancing

it may be difficult to complete even 75% Practicals and Activities.

Hence for the year 2020-21 the students are required to perform only 60% of the Practicals and Activities