Accelerated Learning Program (ALP) for Physics – 10 (Session 2026-27)

To ensure timely curriculum completion and effective learning within the educational calendar of the 2026-27 academic session, selected topics of Physics- 10 have been reduced under the Accelerated Learning Program (ALP).

This adjustment has been made carefully to prevent any learning loss, content overlap, or conceptual gap for students. The modified scheme retains all core concepts required for progression to higher grades, while maintaining curriculum coherence across science subjects.

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10	Thermal Physics	10.2: Specific heat capacity 10.4: Evaporation 10.6: Superconductivity	7-9 10-12 15,16	MCQs: 10.3, 10.4, 10.5 Short answer question: 10.4 CRQs: 10.2, 10.3 Comprehensive Question: 10.5 Numerical Problems: 10.5, 10.6
11	Transfer of Thermal Energy	11.3: Heat transfer through radiation	25 - 28	MCQs: 11.4, 11.5, 11.7 Short answer questions: 11.1(Radiation is excluded), 11.6, 11.7 CRQs: 11.1, 11.2, 11.5 Comprehensive Questions: 11.2, 11.4
12	Waves	12.4: Properties of waves 12.5: Seismic and Tsunami waves	39 – 41 41 – 43	MCQs: 12.6, 12.7, 12.8 Short answer question: 12.7 CRQs: 12.1, 12.4, 12.5 Comprehensive Questions: 12.4, 12.5 Numerical Problems: 12.5, 12.6
13	Sound	13.4: Reflection of sound (Echo) Example 13.2 13.5: Refraction and diffraction of sound 13.7: Acoustic protection of buildings	53,54 55 55, 56 59	MCQs: 13.2, 13.6 Short answer questions: 13.2, 13.4 CRQs: 13.3, 13.5, 13.6 Comprehensive Questions: 13.4, 13.5 Numerical Problems: 13.5, 13.6

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14	Light	• Refraction through prism • Total internal reflection Example 14.3 14.3: Optical fiber 14.5: Optical devices 14.7: Gravitational lens and acoustic lens 14.8: Dispersion of light by prism	69 69 – 72 72, 73 73, 74 80, 81 83, 84 84, 85	MCQs: 14.2,14.3,14.5,14.6 Short answer question: 14.3 CRQs: 14.2, 14.3, 14.4, 14.5 Comprehensive Questions: 14.2, 14.3, 14.4 Numerical Problems: 14.2, 14.5, 14.6
15	Electrostatics	15.3: Applications of electrostatics 15.6: Conduction of electric charges 15.7: Accumulation of charges	93 - 95 98, 99 99 – 101	MCQs: 15.1, 15.2, 15.5 Short answer questions: 15.3, 15.4, 15.6, 15.7 CRQs: 15.3, 15.5 Comprehensive Questions: 15.4, 15.5 Numerical Problems: 15.5, 15.7
16	Electricity	16.4: Combination of resistances Example 16.2 16.7: Resistor colour codes 16.8: Common use of electricity 16.10: Household circuits and safety measures	113, 114 114, 115 117 - 119 119 121 - 123	MCQs: 16.6 Short answer question: 16.5 CRQs: 16.3, 16.4, 16.5 Comprehensive Question: 16.4 Numerical Problems: 16.2, 16.3
17	Electromagnetism	17.4: Electric motor 17.5: Use of magnetic effects of current	132,133 133 - 135	MCQs: 17.2, 17.3 Short answer questions: 17.3, 17.5 CRQs: 17.2, 17.3
18	Electromagnetic Induction and Electromagnetic Waves	18.2: A.C. Generator 18.4: Deflection of electron beam in electric and magnetic fields	143, 144 146, 147	MCQs: 18.2, 18.3 Short answer questions: 18.2, 18.3, 18.4 CRQs: 18.3
		18.5: Waveform on oscilloscope 18.6: Scattering of light in the atmosphere	147, 148 149	Comprehensive Questions: 18.3, 18.4, 18.5 Numerical Problems: 18.2, 18.5

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19	Electronics	19.2: Analog and digital electronics 19.3: Boolean logic 19.5: Applications of logic gates	158, 159 159, 160 163, 164	MCQs: 19.5 Short answer questions: 19.5, 19.6, 19.7, 19.8, 19.9 CRQs: 19.3, 19.4, 19.5 Comprehensive Questions: 19.3, 19.6
20	Atomic and Nuclear Physics	20.1: Atomic structure 20.2: Atomic Nucleus Example: 20.1 20.3: Isotopes 20.5: Radioactive decay Example 20.2 20.9: Effects and uses of nuclear radiation	168, 169 169, 170 170 170, 171 173, 174 174, 175 181 - 183	MCQs: 20.1, 20.2, 20.7, 20.8 Short answer questions: 20.1, 20.2, 20.8 CRQs: 20.1, 20.3, 20.4 Comprehensive Questions: 20.1, 20.3, 20.4 Numerical Problems: 20.1, 20.3, 20.4, 20.7
21	Space and Environment	21.1: Sun and planetary data	187 – 190	MCQs: 21.1, 21.2, 21.3, 21.5 Short answer questions: 21.1, 21.2, 21.6, 21.7 CRQs: 21.1, 21.2, 21.3 Comprehensive Questions: 21.1, 21.2, 21.3

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