Punjab Education, Curriculum, Training and Assessment Authority

Smart Syllabus / Accelerated Learning Program (ALP)-Deleted Content and Questions for Physics-11 (Annual Examination-2027)

To ensure timely curriculum completion and effective learning for Academic Session 2026-27, selected topics and questions of Physics- 11 have been reduced under the Smart Syllabus / 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. The detail is as follows:

Chapter No.	Chapter Name	Topics	Page No.	Exercise
1	Measurements	1.1 Physical quantities and their units 1.2 International system of units	2 2-5	MCQs: 1.2, 1.3, 1.4, 1.14, 1.16 Shot answer questions: 1.1, 1.3, 1.4, 1.5 CRQs: 1.1, 1.3, 1.5, 1.6, 1.7, 1.8, 1.9, 1.11 Comprehensive Question: 1.3 (Part-b) Numerical Problems: 1.1, 1.2, 1.8
2	Force and Motion	2.1 Scalars 2.2 Vectors • Only derivation of equations of motion by graphical method 2.10 Elastic collision in two dimensions 2.11 Inelastic collision in two dimensions 2.12 Rocket propulsion • Examples: 2.1, 2.4	20 20-21 25-28 41, 42 42, 43 44 22, 29-30	MCQs: 2.8 Shot answer questions: 2.7 CRQs: 2.3, 2.4 Comprehensive Questions: 2.3, 2.7, 2.8 (only inelastic collision in two dimensions) Numerical Problems: 2.4, 2.10, 2.11, 2.12
3	Circular and Rotational Motion	• Applications of centripetal force • Flywheel • The Gyroscope • Example: 3.2	55, 56 64 64, 65 54	MCQs: 3.6, 3.8, 3.9 Shot answer questions: 3.3, 3.6, 3.8 CRQs: 3.2, 3.5, 3.6, 3.8 Numerical Problems: 3.3, 3.5, 3.10
4	Work, Energy and Power	4.1 Work done by a constant force 4.5 Energy (K.E.) • Examples: 4.3 and 4.5	69, 70 74, 75	MCQs: 4.2, 4.4, 4.8, 4.9 Short answer questions: 4.2, 4.5, 4.8, 4.9 CRQs: 4.2, 4.3, 4.5, 4.7

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			75-76 and 82-83	Comprehensive Questions: 4.1, 4.2 (Part-i) Numerical Problems: 4.2, 4.7, 4.8, 4.10
5	Solids and Fluid Dynamics	5.1 Classification of solids 5.4 Determination of Young's modulus of a wire 5.10 Increase in flow velocity 5.15 Real fluids are viscous fluids 5.16 Superfluids	88, 89 91, 92 101 107, 108 108	MCQs: 5.3, 5.9, 5.12 Short answer questions: 5.5, 5.6, 5.10 CRQs: 5.2, 5.5, 5.6 Comprehensive Questions: 5.1, 5.4 Numerical Problems: 5.3, 5.5, 5.6
6	Heat and Thermodynamics	6.1 Assumptions of the kinetic theory of gasses 6.6 Heat engine • Example: 6.1	113-117 122 115	MCQs: 6.3, 6.4, 6.7, 6.8, 6.10 Short answer questions: 6.1, 6.2, 6.9, 6.10, 6.11 CRQs: 6.4, 6.5 Comprehensive Questions: 6.1, 6.2 Numerical Problems: 6.1, 6.2, 6.7, 6.8
7	Waves and Vibrations	7.1 Waves 7.4 Stationary waves and their formation • Tuning musical instruments • Examples: 7.6, 7.9	132-134 139, 140 153 151 and 156	MCQs: 7.1, 7.3, 7.4, 7.9 Short answer questions: 7.4, 7.5 CRQs: 7.1, 7.3 Numerical Problems: 7.1, 7.2, 7.4, 7.5
8	Physical Optics and Gravitational Waves	8.2 Types of Polarization • Optical activity • Space-time distortion / tidal forces • Examples: 8.5, 8.6	169 173, 174 179 181	MCQs: 8.5, 8.8, 8.9, 8.10 Short answer questions: 8.4, 8.5 CRQs: 8.4, 8.6 Comprehensive Questions: 8.1 (Only classify the polarization of waves), 8.8 Numerical Problems: 8.1, 8.5, 8.9
9	Electrostatics and Current Electricity	• Electric field lines • Applications of Gauss's law 9.7 Motion of charged particles in a uniform electric field 9.8 Path of a charged particle	189-191 194 198, 199 199, 200	MCQs: 9.3, 9.6, 9.10 Short answer questions: 9.3, 9.8, 9.9 CRQs: 9.1, 9.2, 9.3 Numerical Problems: 9.3, 9.4, 9.7, 9.9

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		9.9 Shielding from external electric field 9.19 Use of a Galvanometer • Examples: 9.9, 9.11	200, 201 214, 215 205, 210-211	
10	Electromagnetism	10.3Magnetic flux linkage 10.5 Velocity selector 10.7 Lenz's law • Examples: 10.2, 10.4, 10.5 and 10.7	227 229, 230 233-235 226, 230, 231, 236	MCQs: 10.2, 10.3, 10.10 Short answer questions: 10.1, 10.4, 10.5, 10.6, 10.7 CRQs: 10.2, 10.3, 10.8 Comprehensive Questions: 10.3 (Only Lenz's law), 10.5 Numerical Problems: 10.7, 10.8, 10.9, 10.11, 10.12
11	Special Theory of Relativity	11.5 Space-time in relativity	249-251	MCQs: 11.1 Shot answer questions: 11.1, 11.4, 11.8 CRQs: 11.1, 11.2 Comprehensive Question: 11.3 Numerical Problems: 11.7, 11.8
12	Nuclear and Particle Physics	12.8 Conservation laws 12.10 Most of the matter in the observable universe is plasma 12.11The theories about the forces between the masses of particles 12.12The standard model	267 267, 268 268, 269 269	MCQs: 12.2, 12.4, 12.5, 12.9, 12.15, 12.16, 12.17 Shot answer questions: 12.2, 12.3, 12.7, 12.11, 12.13, 12.14 CRQs: 12.2, 12.4 Numerical Problems: 12.6

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