THE GENIUS SCIENCE ACADEMY, LAHORE

10th Class (Matric Part-II) Physics Smart Syllabus

Accelerated Learning Program (ALP) · Deleted Topics, Practicals & Pairing Scheme · Session 2026-27

12
CHAPTERS WITH DELETIONS (CH 10–21)

60
PAPER MARKS · 2 HOURS

8
PHYSICS-10 PRACTICALS EXCLUDED

How to use: Questions will not be set from the topics, examples and exercise questions listed below. Cross them out in your book and prepare **all remaining content**.

Chapter-wise Deleted Topics & Exercise Questions

Ch.	Chapter Name	Deleted Topics & Page Nos.	Deleted Exercise Questions
10	**Thermal Physics**	DELETED 10.2 Specific heat capacity · Page 7–9 DELETED 10.4 Evaporation · Page 10–12 DELETED 10.6 Superconductivity · Page 15, 16	**MCQs:** 10.3, 10.4, 10.5 **Short Questions:** 10.4 **CRQs:** 10.2, 10.3 **Comprehensive Questions:** 10.5 **Numerical Problems:** 10.5, 10.6
11	**Transfer of Thermal Energy**	DELETED 11.3 Heat transfer through radiation · Page 25–28	**MCQs:** 11.4, 11.5, 11.7 **Short 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**	DELETED 12.4 Properties of waves · Page 39–41 DELETED 12.5 Seismic and Tsunami waves · Page 41–43	**MCQs:** 12.6, 12.7, 12.8 **Short Questions:** 12.7 **CRQs:** 12.1, 12.4, 12.5 **Comprehensive Questions:** 12.4, 12.5 **Numerical Problems:** 12.5, 12.6
13	**Sound**	DELETED 13.4 Reflection of sound (Echo) · Page 53, 54 DELETED Example 13.2 · Page 55 DELETED 13.5 Refraction and diffraction of sound · Page 55, 56 DELETED 13.7 Acoustic protection of buildings · Page 59	**MCQs:** 13.2, 13.6 **Short Questions:** 13.2, 13.4 **CRQs:** 13.3, 13.5, 13.6 **Comprehensive Questions:** 13.4, 13.5 **Numerical Problems:** 13.5, 13.6
14	**Light**	DELETED Refraction through prism · Page 69 DELETED Total internal reflection · Page 69–72 DELETED Example 14.3 · Page 72, 73 DELETED 14.3 Optical fiber · Page 73, 74 DELETED 14.5 Optical devices · Page 80, 81 DELETED 14.7 Gravitational lens and acoustic lens · Page 83, 84 DELETED 14.8 Dispersion of light by prism · Page 84, 85	**MCQs:** 14.2, 14.3, 14.5, 14.6 **Short Questions:** 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**	DELETED 15.3 Applications of electrostatics · Page 93–95 DELETED 15.6 Conduction of electric charges · Page 98, 99 DELETED 15.7 Accumulation of charges · Page 99–101	**MCQs:** 15.1, 15.2, 15.5 **Short 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

Ch.	Chapter Name	Deleted Topics & Page Nos.	Deleted Exercise Questions
16	**Electricity**	**DELETED** 16.4 Combination of resistances · Page 113, 114 **DELETED** Example 16.2 · Page 114, 115 **DELETED** 16.7 Resistor colour codes · Page 117–119 **DELETED** 16.8 Common use of electricity · Page 119 **DELETED** 16.10 Household circuits and safety measures · Page 121–123	**MCQs:** 16.6 **Short Questions:** 16.5 **CRQs:** 16.3, 16.4, 16.5 **Comprehensive Questions:** 16.4 **Numerical Problems:** 16.2, 16.3
17	**Electromagnetism**	**DELETED** 17.4 Electric motor · Page 132, 133 **DELETED** 17.5 Use of magnetic effects of current · Page 133–135	**MCQs:** 17.2, 17.3 **Short Questions:** 17.3, 17.5 **CRQs:** 17.2, 17.3
18	**Electromagnetic Induction and Electromagnetic Waves**	**DELETED** 18.2 A.C. Generator · Page 143, 144 **DELETED** 18.4 Deflection of electron beam in electric and magnetic fields · Page 146, 147 **DELETED** 18.5 Waveform on oscilloscope · Page 147, 148 **DELETED** 18.6 Scattering of light in the atmosphere · Page 149	**MCQs:** 18.2, 18.3 **Short Questions:** 18.2, 18.3, 18.4 **CRQs:** 18.3 **Comprehensive Questions:** 18.3, 18.4, 18.5 **Numerical Problems:** 18.2, 18.5
19	**Electronics**	**DELETED** 19.2 Analog and digital electronics · Page 158, 159 **DELETED** 19.3 Boolean logic · Page 159, 160 **DELETED** 19.5 Applications of logic gates · Page 163, 164	**MCQs:** 19.5 **Short 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**	**DELETED** 20.1 Atomic structure · Page 168, 169 **DELETED** 20.2 Atomic Nucleus · Page 169, 170 **DELETED** Example 20.1 · Page 170 **DELETED** 20.3 Isotopes · Page 170, 171 **DELETED** 20.5 Radioactive decay · Page 173, 174 **DELETED** Example 20.2 · Page 174, 175 **DELETED** 20.9 Effects and uses of nuclear radiation · Page 181–183	**MCQs:** 20.1, 20.2, 20.7, 20.8 **Short 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**	**DELETED** 21.1 Sun and planetary data · Page 187–190	**MCQs:** 21.1, 21.2, 21.3, 21.5 **Short Questions:** 21.1, 21.2, 21.6, 21.7 **CRQs:** 21.1, 21.2, 21.3 **Comprehensive Questions:** 21.1, 21.2, 21.3

Excluded Practicals (Session 2026-27)

Physics-10 practicals excluded:

- Determine the critical angle of glass using a semicircular slab and a light ray box or a laser light.
- Trace the path of a ray of light through a glass prism and measure the angle of deviation.
- Study resistors in a series circuit.
- Study resistors in a parallel circuit.
- Set up a burglar alarm using a NAND gate.
- Make a fire alarm using a NOT gate.
- Find the specific heat of a given solid by the method of mixture using a polystyrene cup (as container of negligible heat capacity).
- Draw a graph between temperature and time when ice is converted into water and then to steam by slow heating.

Physics-9 practicals also listed as excluded:

- Find the value of g by free fall method.
- Investigate the relation between force of limiting friction and normal reaction.
- Find the weight of an unknown object by using principle of moments.
- Find the density of a solid using a measuring cylinder.
- Study the relationship between load and extension (helical spring) by drawing a graph.

Pairing Scheme – Physics Class 10 (60 Marks · 2 Hours)

Time: Objective 15 minutes + Subjective 1 hour 45 minutes.

Section	Question & Chapter Scope	Marks
Objective	**Q-1:** 12 MCQs from the entire textbook – one MCQ from each chapter (Ch 10–21).	1 × 12 = 12
Subjective Part-I	**Q-2:** Attempt 5 short questions out of 8 – two from each of chapters **10, 11, 12 and 13**.	2 × 5 = 10
	Q-3: Attempt 5 short questions out of 8 – two from each of chapters **14, 15, 16 and 17**.	2 × 5 = 10
	Q-4: Attempt 5 short questions out of 8 – two from each of chapters **18, 19, 20 and 21**.	2 × 5 = 10
Subjective Part-II	Three detailed questions; attempt any **two** (9 marks each). **Q-5:** one from chapters 10, 11, 12, 13 · **Q-6:** one from chapters 14, 15, 16, 17 · **Q-7:** one from chapters 18, 19, 20, 21.	2 × 9 = 18
Note	Each detailed question has two parts. Part (a) may be asked from any chapter; Part (b) is asked from a **different** chapter (not the same chapter as Part a). Part (a) carries 4 marks, Part (b) carries 5 marks.	

About this document. Compiled by The Genius Science Academy from the PECTAA Accelerated Learning Program (ALP) deleted-content list for Session 2026-27. Page numbers refer to the new textbook edition; please cross-check with your textbook and the official PECTAA / BISE notification.
Questions? WhatsApp 0324-4766777 (Valencia Town Campus) · 0336-4333389 (Audit & Accounts Campus) · gsa-lahore.web.app