Physics—Part I

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Chapter 1: ElectricCharges and Fields	2–7 47–50	1.2 Electric Charge (delete only activity withpaper strips and making electroscope) 1.3 Conductors and Insulators (delete onlyconcept of earthing) 1.4 Charging byInduction Exercises 1.13, 1.25–1.34
Chapter 2: Electrostatic Potential and Capacitance	81 87–92	2.15 Energy Stored ina Capacitor (delete onlyderivation) Exercises 2.12 to 2.36

Chapter 3: CurrentElectricity	102–103 107–109 112–113 120–124 127–131	3.7 Resistivity of VariousMaterials (delete Tables 3.1 and 3.2 and Carbonresistors, Colour code forcarbon resistor) 3.10 Combinations of Resistors – Series andParallel Example 3.5 3.15 Meter Bridge 3.16 Potentiometer Exercises 3.3, 3.4, 3.10, 3.12, 3.14–3.23
Chapter 4: MovingCharges and Magnetism	135 140–142 152–153 162–163 170–172	Table 4.1 4.4.1 Velocity Selector 4.4.2 Cyclotron 4.8.2 The Toroid 4.10.3 The Magnetic Dipole Moment of a Revolving Electron Exercises 4.14–4.28
Chapter 5: Magnetism and Matter	176–179 180 185–189 191 194–196 200–203	5.2.2 Bar Magnet as an Equivalent Solenoid (delete only mathematical treatment) 5.2.3 The Dipole in a Uniform Magnetic Field (delete only mathematical treatment) Example 5.4 5.4 Earth's Magnetism 5.41. Magnetic Declination and Dip Table 5.2 5.6.2 Paramagnetism (delete only Curie's Law) 5.6.3 Ferromagnetism (delete only Curie's temperature; and Hysteresis) 5.7 Permanent Magnets and Electromagnets Exercises 5.1, 5.2, 5.9–5.11, 5.13–5.25

Chapter 6: Electromagnetic Induction	215–219 230–232	6.7 Energy Consideration: A Quantitative Study 6.8 Eddy Currents Exercises 6.6, 6.10–6.17
Chapter 7: Alternating Current	240 243 246–247 249–251 255–259 266–268	Figure 7.7 Magnetisationand Demagnetisation of an Inductor Figure 7.10 Charging and Discharging of a Capacitor 7.6.2 Analytical Solution (of series LCR circuit) 7.6.3 Resonance (deleteonly Sharpness of Resonance) 7.8 LC Oscillations Exercises 7.6, 7.8, 7.10, 7.12–7.26
Chapter 8: Electromagnetic Waves	273–274 276–278 279–280 287	Example 8.1 8.3.2 Nature of Electromagnetic Waves (delete only about etherand page 277) Example 8.4 and 8.5 Exercises 8.11–8.15

Physics—Part II

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Chapter 9: Ray Optics and OpticalInstruments	318 321–322 332–335 346	9.3 Refraction (delete onlyadvanced sunrise and delayed sunset) 9.4.1(i) Mirage 9.4.1(ii) Diamond 9.7 Some Natural Phenomena due to Sunlight 9.7.1 The Rainbow 9.7.2 Scattering of Light Exercise 9.18

Chapter 10: WaveOptics	358–359	10.3.4 Doppler Effect
	359	Example 10.1
	363–367	10.5 Interference of Light Waves and Young's Experiment (retain the finalexpressions for dark and bright fringes but delete the derivation; delete expressionfor fringe width)
	368–371	10.6 Diffraction (retain only qualitative treatment)
	372–376	10.6.3 Resolving Power ofOptical Instruments
		10.6.4 Validity of Ray Optics
	379–381	10.7.1 Polarisation byScattering
		10.7.2 Polarisation by Reflection
	383–385	Exercises 10.7–10.21
Chapter 11: Dual Nature ofRadiation and Matter	388	Table 11.1
	397	Example 11.3
	400–404	11.8 Wave Nature of Matter(delete only derivation for de Broglie wavelength of accelerated electron; and Heisenberg's uncertainty principle)
		11.9 Davisson and GermerExperiment
		Appendix 11.1 The Historyof Wave-Particle Flip-Flop
	407–413	Exercises 11.5, 11.7, 11.12 to 11.14, 11.16, 11.17, 11.19–11.37
Chapter 12: Atoms	421–422	12.3.1 Spectral Series
	424–426	12.4 Bohr Model of the Hydrogen Atom (retain only the expression for radius of nth possible orbit but deleteits derivation)
	429	12.5 The Line Spectra of theHydrogen Atom (retain only qualitative treatment)
	430	Example 12.6
	436–437	Exercises 12.3, 12.11–12.17

Chapter 13: Nuclei	446–451 452–455 462–466	13.6.1 Law of RadioactiveDecay 13.6.2 Alpha Decay 13.6.3 Beta Decay 13.6.4 Gamma Decay 13.7.2 Nuclear Reactor Exercises 13.1, 13.2, 13.6–13.10, 13.12–13.14, 13.18, 13.22–13.31
Chapter 14: Semiconductor Electronics: Material Devicesand Simple Circuits	485–495 497–499	14.8 Special Purpose *p-n* junction Diodes 14.9 Digital Electronics andLogic Gates Exercises 14.7–14.15