

12079 – Mathematics—Part I

Chapter	Page No.	Dropped Topics/Chapters
Chapter 1: Relations and Functions	12 13–14 15 16–25 26 27–28 29–31 31–32	1.4 Composition of Functions and Invertible Function (upto ‘This leads to the following definition’) Full Pages Examples 24 and 25 Full Pages Ques. 12 and 13 Examples 45 and 49 Ques. 1–3, 6–7, 9, 11–14, 18–19 Summary Points 11–13 and 15–19
Chapter 2: Inverse Trigonometric Functions	42–44 45–47 47–48 49–51 51–52 53	2.3 Properties of Inverse Trigonometric Functions (Except • $\sin(\sin^{-1} x) = x, x \in [-1, 1]$ • $\sin^{-1}(\sin x) = x, x \in \left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$) Examples 4, 7 and 8; Alternative Solution of Example 5 Ques. 3, 4, 6, 12, 14, 15 Examples 10, 11, 12, 13 Ques. 8, 12, 17 (Miscellaneous Exercise) Summary Points 8–13
Chapter 3: Matrices	90–92 92–97	3.7 Elementary Operations (Transformation) of a Matrix 3.8.1 Inverse of Matrices by Elementary Operations (Retain Ques. 18 of Exercise 3.4)

	98 100–101 102	Example 26 Ques. 1–3 and 12 (Miscellaneous Exercise) Third Last Point of Summary
Chapter 4: Determinants	109–121 137–143 144	4.3 Properties of Determinants Miscellaneous Examples 30–32 and 34 Ques. 2, 4–6, 11–15 and 17 (Miscellaneous Exercise) Summary Points 4–11
Chapter 5: Continuity and Differentiability	165–166 168 184–186 186–187 192–193	Examples 22 and 23 Example 27 5.8 Mean Value Theorem Exercise 5.8 and Miscellaneous Example 44 (ii) Ques. 19 (Miscellaneous Exercise) and Summary points 5 (derivatives of $\cot^{-1}x$, $\sec^{-1}x$, $\operatorname{cosec}^{-1}x$), 7 and 8
Chapter 6: Application of Derivatives	206–216 236–238 242–244 245	6.4 Tangents and Normals 6.5 Approximations Examples 45, 46 Ques. 1, 4–5 and 20–24 (Miscellaneous Exercise) Points 4–10 in the Summary
Answers	268–270 273–274 276 282–283 284–285	Answers of Exercises

12080 – Mathematics—Part II

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Chapter 7: Integrals	290–291 291–292 298–299 613–616 331–334 352–354 355	Points (xi)–(xiii) in the List of Derivatives 7.2.1 Geometrical Interpretation of Indefinite Integral 7.2.3 Comparison between Differentiation and Integration 7.6.3 Type of Integral 7.7.1 Definite Integral as the Limit of a Sum Ques. 19, 32, 40 and 44 Point 2 in the Summary (xiv) and (xv) in Some Standard Integrals
Chapter 8: Application of Integrals	363–365 366 366–372 373–376 377	8.2.1 The Area of the Region Bounded by a Curve and a Line Ques. 3 and 6–11 in Exercise 8.1 8.3 Area between Two Curves Examples 11, 13 and 14 Ques. 2–3, 6–7, 8–15, 18–19 (Miscellaneous Exercise) Last Two Points of the Summary
Chapter 9: Differential Equations	385–391 415–416 420–422	9.4 Formation of Differential Equations whose General Solution is Given Example 25 Ques. 3, 5 and 15 (Miscellaneous Exercise), Point Six of the Summary

Chapter 10: Vector Algebra	616–619	10.7 Scalar Triple Product
	619–622	10.7.1 Coplanarity of Three Vectors
Chapter 11: Three Dimensional Geometry	465	11.2.1 Relation between the Direction Cosines of a Line
	469–471	11.3.2 Equation of a Line Passing through Two Given Points, Ques. 8–9 (Exercise 11.2)
	477–478	11.6 Plane
	479–497	11.7 Coplanarity of Two Lines
		11.8 Angle between Two Planes
		11.9 Distance of a Point from a Line
	497–499	11.10 Angle between a Line and a Plane Ques. 1, 2, 5, 7–8, 10–19, 21–23 (Miscellaneous Exercise)
Chapter 12: Linear Programming	500–501	Summary Points 13, 20–24
	502–503	Full Pages
Chapter 13: Probability	514–527	12.3 Different Types of Linear Programming Problems
	528–529	Summary Points 2–9
Chapter 13: Probability	557–558	13.6 Random Variables and Its Probability Distributions
	558–559	Example 22 and 23
	559–564	13.6.1 Probability Distribution of a Random Variable
		13.6.2 Mean of Random Variables

	565–571 572–578 579–581 583 585–586	13.6.3 Variance of a Random Variable 13.7 Bernoulli Trials and Binomial Distribution Example 34 and 35 Ques. 5–7, 9–11 (Miscellaneous Exercise) Last 3 Points of the Summary
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12083 – Biology

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Chapter 9: Strategies for Enhancement in Food Production	165–176 178	Full Chapter
Chapter 13: Organisms and Populations	220 221–222 223–225 225–226	13.1 Organism and Its Environment 13.1.1 Major Abiotic Factors 13.1.2 Responses to Abiotic Factors 13.1.3 Adaptations Summary (para 2) Ques. 1, 2, 3, 9, 10, 11, 12

Chapter 14: Ecosystem	250–252	14.6 Ecological Succession 14.6.1 Succession of Plants
	253–254	14.7 Nutrient Cycling
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Chapter 16: Environmental Issues	270–286	Full Chapter

12085 – Chemistry—Part I

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12086 – Chemistry—Part II

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Unit 15: Polymers	433–446	Full Chapter

Unit 16: Chemistry
in Everyday Life

447–463

Full Chapter

12089 – Physics—Part I

Chapter	Page No.	Dropped Topics/ Chapters
Chapter 1: Electric Charges and Fields	2–7	1.2 Electric Charge (delete only activity with paper strips and making electroscope)
	47–50	1.3 Conductors and Insulators (delete only concept of earthing) 1.4 Charging by Induction Exercises 1.13, 1.25–1.34
Chapter 2: Electrostatic Potential and Capacitance	81	2.15 Energy Stored in a Capacitor (delete only derivation)
	87–92	Exercises 2.12 to 2.36
Chapter 3: Current Electricity	102–103	3.7 Resistivity of Various Materials (delete Tables 3.1 and 3.2 and Carbon resistors, Colour code for carbon resistor)
	107–109	3.10 Combinations of Resistors – Series and Parallel
	112–113	Example 3.5
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	140–142	4.4.1 Velocity Selector
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	162–163	4.8.2 The Toroid
Chapter 5: Magnetism and Matter	170–172	4.10.3 The Magnetic Dipole Moment of a Revolving Electron Exercises 4.14–4.28
	176–179	5.2.2 Bar Magnet as an Equivalent Solenoid (delete only mathematical treatment)
	180	5.2.3 The Dipole in a Uniform Magnetic Field (delete only mathematical treatment)
	185–189	Example 5.4
	191	5.4 Earth's Magnetism
	194–196	5.41. Magnetic Declination and Dip Table 5.2
	200–203	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
	215–219	6.7 Energy Consideration: A Quantitative Study
Chapter 6: Electromagnetic Induction	230–232	6.8 Eddy Currents Exercises 6.6, 6.10–6.17

Chapter 7: Alternating Current	240	Figure 7.7 Magnetisation and Demagnetisation of an Inductor
	243	Figure 7.10 Charging and Discharging of a Capacitor
	246–247	7.6.2 Analytical Solution (of series LCR circuit)
	249–251	7.6.3 Resonance (delete only Sharpness of Resonance)
	255–259	7.8 LC Oscillations
Chapter 8: Electromagnetic Waves	266–268	Exercises 7.6, 7.8, 7.10, 7.12–7.26
	273–274	Example 8.1
	276–278	8.3.2 Nature of Electromagnetic Waves (delete only about ether and page 277)
	279–280 287	Example 8.4 and 8.5 Exercises 8.11–8.15

12090 – Physics—Part II

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Chapter 9: Ray Optics and Optical Instruments	318	9.3 Refraction (delete only advanced sunrise and delayed sunset)
	321–322	9.4.1(i) Mirage
	332–335	9.4.1(ii) Diamond 9.7 Some Natural Phenomena due to Sunlight 9.7.1 The Rainbow 9.7.2 Scattering of Light
	346	Exercise 9.18

Chapter 10: Wave Optics	358–359 359 363–367 368–371 372–376 379–381 383–385	10.3.4 Doppler Effect Example 10.1 10.5 Interference of Light Waves and Young's Experiment (retain the final expressions for dark and bright fringes but delete the derivation; delete expression for fringe width) 10.6 Diffraction (retain only qualitative treatment) 10.6.3 Resolving Power of Optical Instruments 10.6.4 Validity of Ray Optics 10.7.1 Polarisation by Scattering 10.7.2 Polarisation by Reflection Exercises 10.7–10.21
Chapter 11: Dual Nature of Radiation and Matter	388 397 400–404 407–413	Table 11.1 Example 11.3 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 Germer Experiment Appendix 11.1 The History of Wave-Particle Flip-Flop Exercises 11.5, 11.7, 11.12 to 11.14, 11.16, 11.17, 11.19–11.37

Chapter 12: Atoms	421–422 424–426 429 430 436–437	12.3.1 Spectral Series 12.4 Bohr Model of the Hydrogen Atom (retain only the expression for radius of nth possible orbit but delete its derivation) 12.5 The Line Spectra of the Hydrogen Atom (retain only qualitative treatment) Example 12.6 Exercises 12.3, 12.11–12.17
Chapter 13: Nuclei	446–451 452–455 462–466	13.6.1 Law of Radioactive Decay 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 Devices and Simple Circuits	485–495 497–499	14.8 Special Purpose <i>p-n</i> junction Diodes 14.9 Digital Electronics and Logic Gates Exercises 14.7–14.15

12130 – Computer Science

No Changes

12103 – Introductory Microeconomics

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12105 – Introductory Macroeconomics

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12113 – Business Studies—I

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12114 – Business Studies—II

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12117 – Accountancy—Not-for-Profit Organisation and Partnership Accounts

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12127 – Accountancy—Computer Accounting System

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12128 – Accountancy—Company Accounts and Analysis of Financial Statements

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12149 – Informatics Practices

No Changes
