

## 12079 – Mathematics—Part I

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

Chapter	Page No.	Dropped Topics/Chapters
Chapter 7: Integrals	290–291	Points (xi)–(xiii) in the List of Derivatives
	291–292	7.2.1 Geometrical Interpretation of Indefinite Integral
	298–299	7.2.3 Comparison between Differentiation and Integration
	613–616	7.6.3 Type of Integral
	331–334	7.7.1 Definite Integral as the Limit of a Sum
	352–354 355	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	8.2.1 The Area of the Region Bounded by a Curve and a Line
	366	Ques. 3 and 6–11 in Exercise 8.1
	366–372	8.3 Area between Two Curves
	373–376 377	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	9.4 Formation of Differential Equations whose General Solution is Given
	415–416	Example 25
	420–422	Ques. 3, 5 and 15 (Miscellaneous Exercise), Point Six of the Summary

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

	565–571	13.6.3 Variance of a Random Variable
	572–578	13.7 Bernoulli Trials and Binomial Distribution
	579–581	Example 34 and 35
	583	Ques. 5–7, 9–11 (Miscellaneous Exercise)
	585–586	Last 3 Points of the Summary
Answers	594 596–599 601 604–612	Answers of Exercises

### 12083 – Biology

Chapter	Page No.	Dropped Topics/Chapters
Chapter 1: Reproduction in Organisms	3–18	Full Chapter
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
	253–254	14.6.1 Succession of Plants
	254–255	14.7 Nutrient Cycling
	255	14.7.1 Ecosystem – Carbon Cycle 14.7.2 Ecosystem – Phosphorus Cycle 14.8 Ecosystem Services
Chapter 16: Environmental Issues	270–286	Full Chapter

### 12085 – Chemistry—Part I

Chapter	Page No.	Dropped Topics/ Chapters
Unit 1: The Solid State	1–34	Full Chapter
Unit 5: Surface Chemistry	123–148	Full Chapter
Unit 6: General Principles and Processes of Isolation of Elements	149–169	Full Chapter
Unit 7: The <i>p</i> -Block Elements	170–214	Full Chapter

### 12086 – Chemistry—Part II

Chapter	Page No.	Dropped Topics/Chapters
Unit 15: Polymers	433–446	Full Chapter

Unit 16: Chemistry in Everyday Life	447–463	Full Chapter
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### 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) 1.3 Conductors and Insulators (delete only concept of earthing) 1.4 Charging by Induction
	47–50	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
	120–124	3.15 Meter Bridge 3.16 Potentiometer
	127–131	Exercises 3.3, 3.4, 3.10, 3.12, 3.14–3.23

Chapter 4: Moving Charges and Magnetism	135	Table 4.1	
	140–142	4.4.1 Velocity Selector	
	152–153	4.4.2 Cyclotron	
	162–163	4.8.2 The Toroid	
	170–172	4.10.3 The Magnetic Dipole Moment of a Revolving Electron Exercises 4.14–4.28	
Chapter 5: Magnetism and Matter	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) Example 5.4	
	185–189	5.4 Earth's Magnetism	
	191	5.41. Magnetic Declination and Dip	
	194–196	Table 5.2 5.6.2 Paramagnetism (delete only Curie's Law)	
	200–203	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	6.7 Energy Consideration: A Quantitative Study
		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)
	255–259 266–268	7.8 LC Oscillations Exercises 7.6, 7.8, 7.10, 7.12–7.26
Chapter 8: Electromagnetic Waves	273–274	Example 8.1
	276–278	8.3.2 Nature of Electromagnetic Waves (delete only about ether and page 277)
	279–280	Example 8.4 and 8.5
	287	Exercises 8.11–8.15

### 12090 – Physics—Part II

Chapter	Page No.	Dropped Topics/ Chapters
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
		9.4.1(ii) Diamond
	332–335	9.7 Some Natural Phenomena due to Sunlight
		9.7.1 The Rainbow
346	9.7.2 Scattering of Light Exercise 9.18	

Chapter 10: Wave Optics	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 final expressions for dark and bright fringes but delete the derivation; delete expression for fringe width)
	368–371	10.6 Diffraction (retain only qualitative treatment)
	372–376	10.6.3 Resolving Power of Optical Instruments 10.6.4 Validity of Ray Optics
	379–381	10.7.1 Polarisation by Scattering 10.7.2 Polarisation by Reflection
	383–385	Exercises 10.7–10.21
Chapter 11: Dual Nature of Radiation 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 Germer Experiment Appendix 11.1 The History of 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 $n$ th possible orbit but delete its derivation)
	429	12.5 The Line Spectra of the Hydrogen Atom (retain only qualitative treatment)
	430 436–437	Example 12.6 Exercises 12.3, 12.11–12.17
Chapter 13: Nuclei	446–451	13.6.1 Law of Radioactive Decay 13.6.2 Alpha Decay 13.6.3 Beta Decay 13.6.4 Gamma Decay
	452–455	13.7.2 Nuclear Reactor
	462–466	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	14.8 Special Purpose $p$ - $n$ junction Diodes
	497–499	14.9 Digital Electronics and Logic Gates Exercises 14.7–14.15

### 12130 – Computer Science

No Changes

**12103 – Introductory Microeconomics**

<b>Chapter</b>	<b>Page No.</b>	<b>Dropped Topics/ Chapters</b>
Chapter 6: Non-Competitive Markets	88–101	Full Chapter

**12105 – Introductory Macroeconomics**

<b>Chapter</b>	<b>Page No.</b>	<b>Dropped Topics/ Chapters</b>
Chapter 6: Open Economy Macroeconomics	95–98	Box 6.2 Exchange Rate Management—International Experience

**12113 – Business Studies—I**

<b>Chapter</b>	<b>Page No.</b>	<b>Dropped Topics/ Chapters</b>
Chapter 3: Business Environment	87–88 91–92	Impact of Government Policy Changes on Business and Industry, with Special Reference to Adoption of the Policies of Liberalisation, Privatisation and Globalisation
Chapter 7: Directing	188–190 204	Qualities of a Good Leader
Chapter 8: Controlling	214–221 223	Techniques of Controlling

**12114 – Business Studies—II**

Chapter	Page No.	Dropped Topics/ Chapters
Chapter 10: Financial Market	252–275	Full Chapter

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

Chapter	Page No.	Dropped Topics/ Chapters
Chapter 1: Accounting for Not-for-Profit Organisation	1–60	Full Chapter

**12127 – Accountancy—Computer Accounting System**

Chapter	Page No.	Dropped Topics/ Chapters
Chapter 5: Database Management System for Accounting	125–150	Full Chapter

**12128 – Accountancy—Company Accounts and Analysis of Financial Statements**

No Changes
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**12149 – Informatics Practices**

No Changes
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