

ഹയർസെക്കന്ററി രണ്ടാം വർഷം

**Mathematics — Part I**

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Chapter 1: Relations and Functions	12	1.4 Composition of Functions and Invertible Function (upto 'This leadsto 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 $\diamond \sin(\sin^{-1} x) = x, x \in [-1, 1]$ $\diamond \sin^{-1}(\sin x) = x, x \in \left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$ )
	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	Example 26
	100–101	Ques. 1–3 and 12 (Miscellaneous Exercise)
	102	Third Last Point of Summary
Chapter 4: Determinants	109–121	4.3 Properties of Determinants
	137–143	Miscellaneous Examples 30–32 and 34 Ques. 2, 4–6, 11–15 and 17 (Miscellaneous Exercise)
	144	Summary Points 4–11
Chapter 5: Continuity and Differentiability	165–166	Examples 22 and 23
	168	Example 27
	184–186	5.8 Mean Value Theorem
	186–187	Exercise 5.8 and Miscellaneous Example 44 (ii)
	192–193	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	6.4 Tangents and Normals
	236–238	6.5 Approximations
	242–244	Examples 45, 46 Ques. 1, 4–5 and 20–24 (Miscellaneous Exercise)
	245	Points 4–10 in the Summary
Answers	268–270	Answers of Exercises
	273–274	
	276	
	282–283	
	284–285	

## Mathematics — Part II

Chapter	Page No.	Dropped Topics/Chapters from evaluation
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	Ques. 19, 32, 40 and 44 Point 2 in the Summary
	355	(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	Examples 11, 13 and 14 Ques. 2–3, 6–7, 8–15, 18–19 (Miscellaneous Exercise)
	377	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	557–558 558–559 559–564 565–571 572–578 579–581 583 585–586	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 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

Answers	594 596–599 601 604–612	Answers of Exercises
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### **Biology**

<b>Chapter</b>	<b>Page No.</b>	<b>Dropped Topics/Chapters from evaluation</b>
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	250–252 253–254 254–255 255	14.6 Ecological Succession 14.6.1 Succession of Plants 14.7 Nutrient Cycling 14.7.1 Ecosystem – Carbon Cycle 14.7.2 Ecosystem – Phosphorus Cycle 14.8 Ecosystem Services
Chapter 16: Environmental Issues	270–286	Full Chapter

### Chemistry—Part I

Chapter	Page No.	Dropped Topics/Chapters from evaluation
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

### Chemistry—Part II

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Unit 15: Polymers	433-446	Full Chapter
Unit 16: Chemistry in Everyday Life	447-463	Full Chapter

### Physics—Part I

Chapter	Page No.	Dropped Topics/Chapters from evaluation
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	<p>102–103</p> <p>107–109</p> <p>112–113</p> <p>120–124</p> <p>127–131</p>	<p>3.7 Resistivity of Various Materials (delete Tables 3.1 and 3.2 and Carbon resistors, Colour code for carbon resistor)</p> <p>3.10 Combinations of Resistors – Series and Parallel</p> <p>Example 3.5</p> <p>3.15 Meter Bridge</p> <p>3.16 Potentiometer</p> <p>Exercises 3.3, 3.4, 3.10, 3.12, 3.14–3.23</p>
Chapter 4: Moving Charges and Magnetism	<p>135</p> <p>140–142</p> <p>152–153</p> <p>162–163</p> <p>170–172</p>	<p>Table 4.1</p> <p>4.4.1 Velocity Selector</p> <p>4.4.2 Cyclotron</p> <p>4.8.2 The Toroid</p> <p>4.10.3 The Magnetic Dipole Moment of a Revolving Electron</p> <p>Exercises 4.14–4.28</p>
Chapter 5: Magnetism and Matter	<p>176–179</p> <p>180</p> <p>185–189</p> <p>191</p> <p>194–196</p> <p>200–203</p>	<p>5.2.2 Bar Magnet as an Equivalent Solenoid (delete only mathematical treatment)</p> <p>5.2.3 The Dipole in a Uniform Magnetic Field (delete only mathematical treatment)</p> <p>Example 5.4</p> <p>5.4 Earth's Magnetism</p> <p>5.41. Magnetic Declination and Dip</p> <p>Table 5.2</p> <p>5.6.2 Paramagnetism (delete only Curie's Law)</p> <p>5.6.3 Ferromagnetism (delete only Curie's temperature; and Hysteresis)</p> <p>5.7 Permanent Magnets and Electromagnets</p> <p>Exercises 5.1, 5.2, 5.9–5.11, 5.13–5.25</p>

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	7.8 LC Oscillations
	266–268	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

### Physics—Part II

Chapter	Page No.	Dropped Topics/Chapters from evaluation
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 9.7.2 Scattering of Light
	346	Exercise 9.18



Chapter 10: Wave Optics	<p>358–359</p> <p>359</p> <p>363–367</p> <p>368–371</p> <p>372–376</p> <p>379–381</p> <p>383–385</p>	<p>10.3.4 Doppler Effect</p> <p>Example 10.1</p> <p>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)</p> <p>10.6 Diffraction (retain only qualitative treatment)</p> <p>10.6.3 Resolving Power of Optical Instruments</p> <p>10.6.4 Validity of Ray Optics</p> <p>10.7.1 Polarisation by Scattering</p> <p>10.7.2 Polarisation by Reflection</p> <p>Exercises 10.7–10.21</p>
Chapter 11: Dual Nature of Radiation and Matter	<p>388</p> <p>397</p> <p>400–404</p> <p>407–413</p>	<p>Table 11.1</p> <p>Example 11.3</p> <p>11.8 Wave Nature of Matter (delete only derivation for de Broglie wavelength of accelerated electron; and Heisenberg’s uncertainty principle)</p> <p>11.9 Davisson and Germer Experiment</p> <p>Appendix 11.1 The History of Wave-Particle Flip-Flop</p> <p>Exercises 11.5, 11.7, 11.12 to 11.14, 11.16, 11.17, 11.19–11.37</p>
Chapter 12: Atoms	<p>421–422</p> <p>424–426</p> <p>429</p> <p>430</p> <p>436–437</p>	<p>12.3.1 Spectral Series</p> <p>12.4 Bohr Model of the Hydrogen Atom (retain only the expression for radius of <math>n</math>th possible orbit but delete its derivation)</p> <p>12.5 The Line Spectra of the Hydrogen Atom (retain only qualitative treatment)</p> <p>Example 12.6</p> <p>Exercises 12.3, 12.11–12.17</p>

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 <i>p-n</i> junction Diodes 14.9 Digital Electronics and Logic Gates
	497–499	Exercises 14.7–14.15

### Business Studies—I

Chapter	Page No.	Dropped Topics/Chapters from evaluation
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

## Business Studies—II

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Chapter 10: FinancialMarket	252-275	Full Chapter

## Accountancy—Not-for-Profit Organisation and Partnership Accounts

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Chapter 1: Accountingfor Not-for-Profit Organisation	1-60	Full Chapter

## Fundamentals of Human Geography

Chapter	Page No.	Dropped Topics/Chapters from evaluation
<b>Unit I</b>		
Chapter 1: Human Geography Nature andScope	4-5	Human Geography Through the Corridors ofTime, Last Paragraph of Fields and Sub-Fields of Human Geography
<b>Unit II</b>		
Chapter 2: The World Population Distribution, Density and Growth	9 11-14	Table 2.1, 2.2, 2.3, Activity on Migration News Collage, Trends in Population Growth, Doubling Time of WorldPopulation, Spatial Pattern of Population Change, Impact of Population Change, Fig.2.2
Chapter 3: Population Composition	17-21	Full Chapter
<b>Unit III</b>		

Chapter 6: Secondary Activities	51-53	Traditional Large Scale Industrial Regions, The Ruhr Coal Field, Iron and Steel Industry, Cotton Textile Industry
Chapter 7: Tertiary and Quarternary Activities	60-61	Factors Affecting Tourism, Collage and Activity on Medical Tourism
Chapter 9: International Trade	84-85 87	Important Aspects of International Trade, Regional Trade Blocs, Figures 9.1 and 9.3
<b>Unit IV</b>		
Chapter 10: Human Settlements	91-102	Full Chapter
Appendix - I	103-109	Full Appendix
<b>Note:</b> The questions given in the exercises related to the deleted content of different chapters should not be considered.		

### **India: People and Economy**

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Unit I		
Chapter 2: Migration: Types, Causes and Consequences	15-22	Full Chapter
Chapter 3: Human Development	23-31	Full Chapter

Unit II		
Chapter 4: Human Settlements	35-37	Classification of Towns on the Basis of Population Size, Fig. 4.5, Tables 4.2 and 4.3
Unit III		
Chapter 7: Mineral and Energy Resources	78	Box information, Fig. 7.4

Chapter 8: Manufacturing Industries	85-103	Full Chapter
Unit IV		
Chapter 10: Transport and Communication	120-121	Box Information and First Three Lines from page 121
<b>Note:</b> The questions given in the exercises related to the deleted content of different chapters should not be considered.		

### Practical Work in Geography—Part II

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Chapter 2: Data Processing	22-30	Measures of Dispersion, Rank Correlation along with All Related Figures
Chapter 4: Use of Computer in Data Processing and Mapping	55-70	Full Chapter
Chapter 5: Field Surveys	71-84	Full Chapter
Annexure	101-105	Full Annexure
<b>Note:</b> The questions given in the exercises related to the deleted content of different chapters should not be considered.		

### Psychology

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Chapter 5: Therapeutic Approaches	94-96 101-102	<ul style="list-style-type: none"> <li>• Psychodynamic Therapy</li> <li>• Biomedical Therapy</li> </ul>
Chapter 6: Attitude and Social Cognition	119-125	<ul style="list-style-type: none"> <li>• Social Cognition</li> <li>• Schemas and Stereotypes Impression Formation and Explaining Behaviour of Others through Attributions</li> <li>• Behaviour in the Presence of Others</li> <li>• Pro-social Behaviour</li> </ul>

Chapter 7: Social Influence and Group Processes	138-149	<ul style="list-style-type: none"> <li>• Conformity, Obedience and Compliance</li> <li>• Cooperation and Competition</li> <li>• Social Identity</li> <li>• Inter-group Conflicts</li> <li>• Conflict Resolution Strategies</li> </ul>
Chapter 8: Psychology and Life	152-176	Full Chapter
Chapter 9: Developing Psychological Skills	177-195	Full Chapter

## HISTORY

Themes	Dropped Topics/Chapters from evaluation
<b>Theme 3</b> Kinship, Caste and Class	<ul style="list-style-type: none"> <li>• Social difference within and Beyond the framework of Caste</li> <li>• Beyond Birth Resources and Status</li> <li>• Explaining Social difference a Social Control</li> </ul>
<b>Theme 5</b> Through the Eyes of Travelers	Full chapter
<b>Theme 8</b> Peasants, Zamindars and the State	Full chapter
<b>Theme 10</b> Colonialism and Countryside	Full chapter
<b>Theme 12</b> Colonial Cities	Full chapter (*)
<b>Theme 14</b> Understanding Partition	<ul style="list-style-type: none"> <li>• The Withdrawal of Law and Order</li> <li>• Regional Variations</li> <li>• Oral Testimonies and History</li> </ul>
<b>Theme 15</b> Framing the Constitution	Full chapter (*)

(\*) Themes deleted earlier.

**Political Science – Politics in India Since Independence**

Chapter	Dropped Topics/Chapters from evaluation
Chapter – 3 Political of Planned Development	Page No: 54 – 57 <ul style="list-style-type: none"> <li>• Key Controversies</li> <li>• Major outcomes</li> </ul> Page No: 61 <ul style="list-style-type: none"> <li>• Later Developments</li> </ul> Page No: 62 (Content with visuals) Page No: 63 Exercise Questions 8, 9

**Political Science - Contemporary World Politics**

Chapter	Dropped Topics/Chapters from evaluation
Chapter – 1 The Coldwar Era	Full Chapter

**ECONOMICS**

**Microeconomics**

Chapter	Dropped Topics/Chapters from evaluation
6. Non Competitive Market	Full chapter

**Macroeconomics**

Chapter	Dropped Topics/Chapters from evaluation
6. Open Economy Macroeconomics	Box No. 6.2 Exchange Management International Experience

**SOCIOLOGY**

ഉള്ളടക്കം കുറയ്ക്കുന്നതിന്റെ ഭാഗമായി സമൂഹശാസ്ത്രത്തിൽ ഒരു പാഠഭാഗവും മൂല്യ നിർണ്ണയത്തിൽ നിന്നും ഒഴിവാക്കേണ്ടതില്ല.

(ഒപ്പ്)  
ഡയറക്ടർ  
എസ്.സി.ഇ.ആർ.ടി