

പൊതു വിദ്യാഭ്യാസ ഡയറക്ടറുടെ  
കാര്യാലയം, ഹയർസെക്കന്ററി വിഭാഗം  
ഹൗസിംഗ് ബോർഡ് ബിൽഡിംഗ്സ്,  
ശാന്തി നഗർ, തിരുവനന്തപുരം.

എ.സി.ഡി.എസ്.പി.സി(1)/247649/22

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**സർക്കുലർ**

വിഷയം: ഹസെ.വി. - പ്ലസ് വൺ - പ്ലസ് ടു പാഠഭാഗങ്ങൾ സംബന്ധിച്ച  
അറിയിപ്പ്.

സൂചന: എസ്.സി.ഇ.ആർ.ടി. ഡയറക്ടർ 15 /11/2022ന് ലഭ്യമാക്കിയ  
റിപ്പോർട്ട്.

ഹയർസെക്കന്ററി ഒന്നും രണ്ടും വർഷ ക്ലാസ്സുകളിലെ  
പാഠപുസ്തകങ്ങളിൽ ദേശീയ തലത്തിൽ കുറവ് വരുത്തിയ പാഠഭാഗങ്ങൾ  
സംബന്ധിച്ച് എസ്.സി.ഇ.ആർ.ടി വെബ്സൈറ്റിൽ പ്രസിദ്ധപ്പെടുത്തിയ  
റിപ്പോർട്ട് എല്ലാ ഹയർസെക്കന്ററി പ്രിൻസിപ്പൽമാരുടെയും അറിവിലേക്കും  
തുടർ നടപടികൾക്കുമായി അനുബന്ധമായി ചേർക്കുന്നു.

ഒപ്പ്/-

**ജോയിന്റ് ഡയറക്ടർ (അക്കാദമിക്)**

## CLARIFICATION REGARDING THE CONTENT IN HIGHER SECONDARY TEXTBOOKS

സ്കൂൾ ക്ലാസുകളുടെ പാഠപുസ്തകങ്ങളിലെ ഉള്ളടക്കം ദേശീയതലത്തിൽ കുറവ് വരുത്തിയിട്ടുണ്ട്. ഈ സാഹചര്യം പൊതുവിദ്യാഭ്യാസവകുപ്പ് വിശദമായി പരിശോധിക്കുകയുണ്ടായി. സംസ്ഥാന സ്കൂൾ കരിക്കുലം സബ്കമ്മിറ്റി അംഗങ്ങളുടെ നേതൃത്വത്തിൽ ഈ വിഷയം ചർച്ച ചെയ്യുകയും കുട്ടികളുടെ ഉപരിപഠന സാധ്യതകൾ പരിഗണിച്ച് സിലബസിലോ പാഠപുസ്തകങ്ങളിലോ തൽക്കാലം അഴിച്ചുപണികൾ വേണ്ടെന്ന് തീരുമാനിക്കുകയും ചെയ്തു. വിവിധ മത്സരപരീക്ഷകളും പ്രവേശനപരീക്ഷകളും അഭിമുഖീകരിക്കേണ്ടവരായ വിദ്യാർത്ഥികൾ പാഠപുസ്തകങ്ങളിലെ ഉള്ളടക്കമേഖലകളെല്ലാം പരിചയപ്പെട്ട് പോകുന്നത് ഉചിതമായിരിക്കുമെന്നും വിലയിരുത്തി. എന്നാൽ മറ്റ് ബോർഡ് പരീക്ഷകൾ എഴുതുന്ന വിദ്യാർത്ഥികളെക്കാൾ സമ്മർദ്ദം കേരളബോർഡിലെ പരീക്ഷയെഴുതുന്ന വിദ്യാർത്ഥികൾക്കുണ്ടാവുമെന്ന ആശങ്കകൾ പരിഗണിച്ച് ഹയർസെക്കന്ററി ഒന്നും രണ്ടും വർഷ ക്ലാസുകളിലെ ചുവടെ ചേർക്കുന്ന മേഖലകൾ മൂല്യനിർണ്ണയത്തിന് പരിഗണിക്കുന്നതല്ല എന്നറിയിക്കുന്നു.

### ഹയർസെക്കന്ററി ഒന്നാം വർഷം

#### MATHEMATICS

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Chapter 1: Sets	12–13	1.7 Power Set, Exercise 1.3 Ques. 5
	21–23	1.12 Practical Problems on Union and Intersection of Two Sets
	24	Exercise 1.6
	25–26	Examples 31–34 and Ques. 6–7 (Miscellaneous Exercise)
	27	Ques. 13–16 (Miscellaneous Exercise), Last Point in the Summary on the Page
	28	Last Point in the Summary
Chapter 3: Trigonometric Functions	74–78	3.5 Trigonometric Equations (up to Exercise 3.4)
	84	Last five points in the Summary
	466–473	3.6 Proofs and Simple Applications of Sine and Cosine Formulae
Chapter 4: Principle of Mathematical Induction	86–96	Full Chapter
Chapter 5:	106–108	5.5.1 Polar Representation of a Complex Number

Complex Number	109  110–111 112–113  114  474–475	5.6 Quadratic Equation Example 11 and Exercise 5.3 Examples 13, 15, 16 Ques. 5–8, 9 and 13 (Miscellaneous Exercise) Last three points in the Summary 5.7 Square-root of a Complex Number
Chapter 6: Linear Inequalities	123–129    133	6.4 Graphical Solution of Linear Inequalities in Two Variables 6.5 Solution of System of Linear Inequalities in Two Variables Last three points in the Summary

Chapter 8: Binomial Theorem	167–174 175  176	8.3 General Middle Terms Example 17 and Ques. 1–3, and 8 (Miscellaneous Exercise) Last two points in the Summary
Chapter 9: Sequences and Series	181–186  194–196 197–198  199–200   201	9.4 Arithmetic Progression (A.P.) (up to Exercise 9.2) 9.7 Sum to $n$ terms of Special Series Examples 21, 22 and 24 Ques. 1–6, 12, 15, 16, 20, 23–26 (Miscellaneous Exercise) Point 3 and 4 in the Summary
Chapter 10: Straight Lines	210–212   217–219 220–224   227 233  235  477–478	10.2.4 Collinearity of Three Points (Examples 4–5 and Ques. 8, 13–14 in Exercise 10.1) 10.3.6 Normal Forms Ques. 8 in Exercise 10.2 10.4 General Equation of a Line Ques. 3 in Exercise 10.3 Ques. 2 (Miscellaneous Exercise) Fourth Last Point in the Summary 10.6 Equation of Family of Lines Passing Through the Points of Intersection of Two Lines

	478–480	10.7 Shifting of Origin
Chapter 11: Conic Sections	248	11.5.2 Special Cases of an Ellipse
Chapter 12: Introduction to Three Dimensional Geometry	273–276 277 278–280	12.5 Section Formula Exercise 12.3 Ques. 4 and 5 (Miscellaneous Exercise), Last Three Points in the Summary
Chapter 14: Mathematical Reasoning	321–346	Full Chapter
Chapter 15: Statistics	372–376 380–381	15.6 Analysis of Frequency Distribution Ques. 6 (Miscellaneous Exercise) and last point in the Summary)
Chapter 16: Probability	383–387 410	16.1 Introduction 16.2 Random Experiment First Two Points in the Summary

### BIOLOGY

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Chapter 3: Plant Kingdom	40–41 42–43 44 45	3.5 Angiosperms 3.6 Plant Life Cycles and Alternation of Generations Summary (Para 5 and 6) Question no. 10

Chapter 5: Morphology of Flowering Plants	67–68 68–69 71 78–79 81 82–83	5.1.2 Modifications of Root 5.2.1 Modifications of Stem 5.3.4 Modifications of Leaves 5.9.1 Fabaceae 5.9.3 Liliaceae Question nos 1, 2, 6 (b) 8, 9, 12, 14
Chapter 6: Anatomy of Flowering Plants	84 84–85 86–87  87–88  94 94–95   99  96–97 97–98  99	6.1 The Tissues 6.1.1 Meristematic Tissues 6.1.2.1 Simple Tissues (Para 2, 3) 6.1.2.2 Complex Tissues (Para 4) 6.4 Secondary Growth 6.4.1 Vascular Cambium 6.4.1.2 Activity of theCambial Ring 6.4.1.3 Spring Wood and Autumn Wood 6.4.1.4 Heartwood and Sapwood 6.4.2 Cork Cambium 6.4.3 Secondary Growth in Roots Question nos 1, 2, 3, 7, 11
Chapter 7: Structural Organisation in Animals	100 101–102 102–103 104–105 105–106 106–111 106–107 107–108 111 111–112 113–115 120–121 121–122	7.1 Animal Tissues 7.1.1 Epithelial Tissue 7.1.2 Connective Tissue 7.1.3 Muscle Tissue 7.1.4 Neural Tissue 7.3 Earthworm 7.3.1 Morphology 7.3.2 Anatomy 7.4 Cockroach 7.4.1 Morphology 7.4.2 Anatomy Summary (Para 2, 3, 4) Question nos 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14 (c)

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Chapter 12: Mineral Nutrition	194–205	Full Chapter
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Chapter 16: Digestion and Absorption	258–267	Full Chapter
Chapter 21: Neural Control and Coordination	322 322 322–323 323 323–324 324–326 327 328 329–330	21.5 Reflex Action and Reflex Arc 21.6 Sensory Reception and Processing 21.6.1 Eye 21.6.1.1 Parts of an Eye 21.6.1.2 Mechanism of Vision 21.6.2 The Ear 21.6.2.1 Mechanism of Hearing  Summary (para 3 and 4) Question nos 1 (b, c), 2 (c), 4, (c, d), 5 (e, f, g, h), 6 (b, c), 7, 8 (b, c), 9 (c), 10 (a), 11, 12 (c, d)
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**CHEMISTRY—PART I**

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Unit XI: Some <i>p</i> -Block Elements	315–333	Full Chapter
Unit XIV: Environmental Chemistry	406–422	Full Chapter

**PHYSICS—PART I**

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Chapter 2: Units and Measurements	18–27	2.3 Measurement of Length 2.4 Measurement of Mass 2.5 Measurement of Time 2.6 Accuracy, Precision of Instruments and Errors in Measurement
	36–38	Exercises 2.13, 2.14, 2.19–2.22, 2.24–2.33
Chapter 3: Motion in a Straight Line	39–43	3.2 Position, Path Length and Displacement
	51–53	3.3 Average Velocity and Average Speed
	56	3.7 Relative Velocity
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	111–113	Exercises 5.24–5.40
Chapter 6: Work, Energy and Power	126–128	6.10 Various Forms of Energy: the Law of Conservation of Energy
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Chapter 7: System of Particles and Rotational Motion	164–167	7.10 Theorems of Perpendicular and Parallel Axes
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## PHYSICS—PART II

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Chapter 10: Mechanical Properties of Fluids	260 261  269  276–277 274–275	10.4.2 Venturi-meter 10.4.3 Blood Flow and Heart Attack 10.6.6 Detergents and Surface Tension Exercises 10.21–10.31 Appendix 10.1
Chapter 11: Thermal Properties of Matter	295–296 302	11.9.5 Greenhouse Effect Exercises 11.21 – 11.22
Chapter 12: Thermodynamics	313 313–314  322	12.9 Heat Engines 12.10 Refrigerators and Heat Pumps Exercises 12.7 and 12.10
Chapter 13: Kinetic Theory	335 340	13.6.5 Specific Heat Capacity of Water Exercises 13.11–13.14
Chapter 14: Oscillations	352–353  355–359  365–366	14.9 Damped Simple Harmonic Motion 14.10 Forced Oscillations and Resonance Exercises 14.16 (p. 365), 14.20–14.25
Chapter 15: Waves	384–387 393–394	15.8 Doppler Effect Exercises 15.20–15.27

Answers	223–226 228–234 396–402 404	In accordance with the reduction in Exercises intext.
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### **BUSINESS STUDIES**

<b>Chapter</b>	<b>Page No.</b>	<b>Dropped Topics/Chapters from evaluation</b>
Chapter 3: Private, Public and Global Enterprises	72–76 80	Joint Ventures

Chapter 4: Business Services	107–109 113–114	Warehousing and Its Functions
Chapter 5: Emerging Modes of Business	134–143	Outsourcing—Concept Need and Scope
Chapter 8: Sources of Business Finance	202–204 208–210	Discounting of Bill of Exchange; ADR and GDR
Chapter 11: International Business	292–307	Complexities involved in International Business, Foreign Trade Promotion: Organisational Support and Incentives; Nature and Importance of Export Processing Zone

### **ACCOUNTANCY—FINANCIAL ACCOUNTING–I**

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Chapter 2: Theory Base of Accounting	36–38	Textual Content on IFRS
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### ACCOUNTANCY—FINANCIAL ACCOUNTING—II

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Chapter 11: Accounts from Incomplete Records	425–462	Full Chapter

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### FUNDAMENTALS OF PHYSICAL GEOGRAPHY

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Unit I: Geography as a Discipline		
Chapter 1: Geography as a Discipline	5 7	Physical Geography and Natural Sciences, Geography and Social Sciences

Unit II: The Earth		
Chapter 2: The Origin and Evolution of the Earth	16–18	Our Solar System, The Moon, Geological Time Scale
Chapter 3: Interior of the Earth	28	Activity— Locating an Epicentre
Unit III: Landforms		
Chapter 5: Minerals and Rocks	40–44	Full Chapter
Unit VI: Life on the Earth		
Chapter 15: Life on the Earth	123–130	Full Chapter

**Note:** The questions given in the exercises related to the deleted content of different chapters should not be considered.

### INDIA: PHYSICAL ENVIRONMENT

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Unit II: Physiography		
Chapter 2: Structure and Physiography	11–15	Large Scale Variations within the Himalayas. Five subdivisions have been deleted and Figures 2.4, 2.5, 2.6, 2.7, 2.8, 2.9
Chapter 3: Drainage System	28–30	Smaller Rivers Flowing towards the West, Smaller Rivers Flowing towards the East, River Regimes, Table 3.1 of comparison between the Himalayan and the Peninsular rivers
Unit III: Climate, Vegetation and Soil		
Chapter 4: Climate	34–38 40–44 46–47 49–50 53–54	Two groups mentioned under Factors Determining the Climate of India and heading factors related to location and relief, factors related to air pressure and wind, mechanism of weather in the winter season, mechanism of weather in the summer season, rain bearing system and rainfall distribution, characteristics of monsoonal rainfall, variability of rainfall, climatic regions of India. Related figures 4.1, 4.2, 4.3, 4.6, 4.7, 4.8, 4.9, 4.13 and table 4.1

Chapter 5: Natural Vegetation	61–62, 66	Forest cover in India, data related to districts in Forest and Life box, details of Nilgiri, Nanda Devi, Sunderban and Gulf of Munnar biosphere reserves
Chapter 6: Soils	68–75	Full Chapter
Unit IV: Natural Hazards and Disasters: Causes,Consequences and Management		
Chapter 7: Natural Hazards and Disasters	79 84	Table 7.1 and 7.2, Structure of TropicalCyclone
Appendices		
I. States, Their Capitals, Number of Districts, Area and Population	94–98	All appendices
II. Union Territories, Their Capitals, Area and Population		
III. Important River Basins		
IV. State/Union Territory wise Forest Cover.		
V. National Parks of India		
<b>Note:</b> <i>The questions given in the exercises related to the deletedcontent of different chapters should not be considered.</i>		

## PRACTICAL WORK IN GEOGRAPHY—PART I

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Chapter 6: Introduction to Aerial Photographs	69–83	Full Chapter
Chapter 8: Weather Instruments, Maps and Charts	107–123	Full Chapter
<b>Note:</b> <i>The questions given in the exercises related to the deleted content of different chapters should not be considered.</i>		

## PSYCHOLOGY

Chapter	Page No.	Dropped Topics/Chapters from evaluation
Chapter 1: What is Psychology?	13–15 18–19	Themes of Research and Applications Psychologists at Work
Chapter 3: The Bases of Human Behaviour	43–63	Full Chapter
Chapter 5: Sensory, Attentional and Perceptual Processes	87–93	Sense Modalities (Auditory and Visual Sensation)
Chapter 6: Learning	120–121 122–123 125–126 127–128	Concept Learning Transfer of Learning The Learner: Learning Styles Applications of Learning Principles
Chapter 7: Human Memory	139–142	Knowledge Representation and Organisation in Memory Memory as a Constructive Process
Chapter 8: Thinking	162	Reduction in Strategies for Creative Thinking

Chapter 9: Motivation and Emotion	172–173 175–176 181–182	Reduction in Biological Motives Reduction in Maslow’s Hierarchy of Needs (Frustration and Conflict Reduction in Expression of Emotions
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## HISTORY

Themes	Dropped Topics/Chapters from evaluation
<b>Theme 1</b> From the Beginning of Time	<b>Units</b> <ul style="list-style-type: none"> <li>• Early encounters with Hunter – Gathers in Africa.</li> <li>• Hunter – Gatherer societies from the present to the past.</li> <li>• Epilogue</li> </ul>
<b>Theme 5</b> Nomadic Empires	Full chapter
<b>Theme 8</b> Confrontation of Cultures	<ul style="list-style-type: none"> <li>• Voyages of exploration by Europeans</li> <li>• The Atlantic Crossing</li> <li>• Spain Establishes an Empire in America</li> <li>• Cortes and the Aztecs</li> <li>• Pizarro and the Incas</li> <li>• Cabral and Brazil</li> <li>• Conquest, Colonies and the slave trade</li> </ul>
<b>Theme 10</b> Displacing Indigenous Peoples	Full chapter
<b>Theme 11</b> Paths to Modernisation	<ul style="list-style-type: none"> <li>• The story of Taiwan</li> <li>• The story of Korea</li> <li>• Post war Nations</li> <li>• Rapid Industrialisation under strong leadership</li> <li>• Continued Economic Growth and call for Democratisation</li> <li>• Korean Democracy and the IMF crisis.</li> </ul>

## POLITICAL SCIENCE – POLITICAL THEORY

Themes	Dropped Topics/Chapters from evaluation
Chapter - 9 Peace	Introduction, The meaning of peace (Page No. 129 – 132) <ul style="list-style-type: none"> <li>• Can violence ever promote peace (page no. 134 – 135)</li> <li>• Peace and the State</li> <li>• Different approaches to the pursuit of peace</li> <li>• Contemporary challenges (page no. 137 – 141)</li> </ul>
Chapter - 10 Development	- Full Chapter

## ECONOMICS

### Indian Economic Development

Chapter	Dropped Topics/Chapters from evaluation
1. Indian Economy on the Eve of Independence	Full chapter
5. Human Capital Formation in India	<ul style="list-style-type: none"> <li>Human Capital and Economic Growth</li> <li>5.4 Human Capital and Human development</li> <li>5.5 State of Human Capital Formation in India</li> <li>5.6 Education Sector in India</li> <li>5.7 Future Prospects</li> <li>5.8 Conclusion</li> </ul>
8. Infrastructure	Full chapter

### Statistics for Economics

Chapter	Dropped Topics/Chapters from evaluation
6. Measures of Dispersion	Full chapter
7. Correlation	<ul style="list-style-type: none"> <li>Karl Pearson's co-efficient and its calculation</li> <li>Spearman's rank Correlation and its calculation</li> </ul>

## SOCIOLOGY

ഉള്ളടക്കം കുറയ്ക്കുന്നതിന്റെ ഭാഗമായി സമൂഹശാസ്ത്രത്തിൽ ഒരു പാഠഭാഗവും മൂല്യ നിർണ്ണയത്തിൽ നിന്നും ഒഴിവാക്കേണ്ടതില്ല.

(ഒപ്പ്)  
ഡയറക്ടർ  
എസ്.സി.ഇ.ആർ.ടി

**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 $\ast \sin(\sin^{-1} x) = x, x \in [-1, 1]$ $\ast \sin^{-1}(\sin x) = x, x \in \left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$ )
	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)
		Summary Points 8-13
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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
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## Mathematics — Part II

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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

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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	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 4.4.2 Cyclotron
	152–153	4.8.2 The Toroid
	162–163	4.10.3 The Magnetic Dipole Moment of a Revolving Electron
	170–172	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) 5.2.3 The Dipole in a Uniform Magnetic Field (delete only mathematical treatment)
	180	Example 5.4
	185–189	5.4 Earth's Magnetism 5.41. Magnetic Declination and Dip
	191	Table 5.2
	194–196	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
	200–203	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	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

## 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	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
	379–381	10.6.4 Validity of Ray Optics 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	Example 12.6
	436–437	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 <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