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1st Year
Smart Syllabus 2027

All 9 subjects in one PDF | Punjab Boards Annual Examination 2027

Source: PECTAA notifications No. PECTAA/C&C Unit/2026/1239 (6 Nov 2026) and 2026/1256 (14 Nov 2026)

Contents

COMPULSORY

English	page 2
Urdu	page 3
Islamiat	page 4
Masihi Taleem	page 5

SCIENCE

Mathematics	page 6
Physics	page 9
Chemistry	page 12
Biology	page 16
Computer Science & Entrepreneurship	page 19

Punjab Education, Curriculum, Training and Assessment Authority
Smart Syllabus / Accelerated Learning Program (ALP)
English for Grade-11 (Academic Session: 2026-27)

Four units out of fourteen, have been excluded from the compulsory textbook of English-11 so that the students may study more effectively. Teachers are requested not to teach these units. Students should focus thoroughly on the remaining ten units. It is mandatory for the BISE paper setters to ensure that no objective, subjective, or other types of questions from the following excluded units are included in the question paper.

Details of Excluded Units:

Sr. No.	Unit No. & Name	Pages
1	**Unit 4:** Team Moon	42 to 55
2	**Unit 7:** What You Do is What You are	82 to 94
3	**Unit 9:** Freedom (Poem)	105 to 113
4	**Unit 12:** The Impact of AI on Society, Human Relationships, and Ethics	131 to 138

Annex-A

سمارٹ سلیبس (Smart Syllabus)

(مضمون اُردو برائے گیارھویں جماعت، تعلیمی سیشن: 2026-27

اُردو لازمی برائے جماعت گیارھویں کی درسی کتاب میں سے طلبہ کی سہولت کے پیشِ نظر چار اسباق حذف کیے جا رہے ہیں تاکہ طلبہ بائیس کے بجائے اٹھارہ اسباق پر توجہ مرکوز کرتے ہوئے بھرپور تیاری کر سکیں۔

حذف شدہ اسباق کی تفصیل:۔

حصہ نثر:	1۔ "چارپائی"	از	رشید احمد صدیقی، صفحہ نمبر: 44 تا 49
	2۔ "پاکستانی زبانیں اور ان کا باہمی رشتہ"	از	ڈاکٹر ممتاز منگلوری، صفحہ نمبر: 90 تا 96
حصہ نظم:	3۔ "کھڑا ڈنر"	از	سید محمد جعفری، صفحہ نمبر: 116 تا 119
حصہ غزل:	4۔ "پتا پتا، بوٹا بوٹا، حال ہمارا جانے ہے"	از	میر تقی میر، صفحہ نمبر: 121 تا 125

امتحانی بورڈ کے پرچہ مرتبین کے لیے لازم ہے کہ سوالیہ پرچہ ترتیب دیتے ہوئے درج بالا اسباق میں سے معروضی، انشائی و دیگر نوعیت کے سوالات میں سے کوئی سوال یا جز شامل نہ کریں۔

Punjab Education, Curriculum, Training and Assessment Authority

تسریع التّعلّم پروگرام (ALP)

برائے مضمون اسلامیات لازمی جماعت گیارھویں

تعلیمی سیشن 2026-27

اسلامیات لازمی جماعت گیارھویں کی ٹیکسٹ بک میں سے طلبہ کی سہولت کے پیشِ نظر درج ذیل احادیثِ مبارکہ اور اسباق حذف کیے جا رہے ہیں تا کہ طلبہ بقیہ تمام اسباق پر توجہ مرکوز کرتے ہوئے بھرپور تیاری کر سکیں۔

باب اوّل: احادیثِ مبارکہ نمبر 3، 5، 8 اور 12

باب چہارم: معاشرتی تعلقات کے اخلاق و آداب

باب پنجم: وراثت کی اسلامی تعلیمات

باب ششم: صوفیہ کرام رحمۃ اللہ علیہم (پیر سید مہر علی شاہ رحمۃ اللہ علیہ، میاں شیر محمد شرقپوری رحمۃ اللہ علیہ)

باب ہفتم نظامِ اسلام کی نشاۃ ثانیہ اور مسلمانوں کی ذمہ داریاں

امتحانی بورڈ کے پرچہ مرتّبین کے لیے لازم ہے کہ سوالیہ پرچہ ترتیب دیتے ہوئے درج بالا باب/عنوانات میں معروضی، انشائی و دیگر نوعیت کے سوالات میں سے کوئی سوال یا جز شامل نہ کریں۔

نوٹ: یہ تسریع التّعلّم پروگرام (ALP) صرف تعلیمی سیشن 2025-26 کے لیے بنایا گیا ہے۔

Annex-A

تسریع التعلم پروگرام (ALP) / سمارٹ سلیبس
برائے مضمون مسیحی تعلیم (لازمی) جماعت گیارھویں
تعلیمی سیشن: 27-2026ء

مسیحی تعلیم (لازمی) جماعت گیارھویں کی ٹیکسٹ بک میں سے طلبہ کی سہولت کے پیش نظر درج ذیل اسباق حذف کیے جارہے ہیں تاکہ طلبہ بقیہ تمام اسباق پر توجہ مرکوز کرتے ہوئے بھرپور تیاری کر سکیں۔ اساتذہ کرام ان اسباق سے صرفِ نظر برتیں۔

باب اول:	سبق نمبر 3:	الٰہی بھید کی گہرائی
باب دوم:	سبق نمبر 6:	یسوع مسیح کا بپتسمہ اور آزمائشیں
	سبق نمبر 7:	پاک ہفتہ: فتح سے عروج تک
باب سوم:	سبق نمبر 10:	پہاڑی وعظ: امن کی بنیاد
باب چہارم:	سبق نمبر 13:	مقدس آگسٹین
باب پنجم:	سبق نمبر 16:	کلامِ مقدس کی زُبانیں
باب ششم:	سبق نمبر 19:	یہودی پس منظر اور تعلیمات مسیح
	سبق نمبر 20:	مقدس پولوس رسول اور مسیحیت

امتحانی بورڈ کے پرچہ مرتبین کے لیے لازم ہے کہ سوالیہ پرچہ ترتیب دیتے ہوئے درج بالا باب / عنوانات میں سے معروضی، انشائی و دیگر نوعیت کے سوالات میں سے کوئی سوال یا جز شامل نہ کریں۔

نوٹ: یہ سمارٹ سلیبس / تسریع التّعلم پروگرام (ALP) صرف تعلیمی سیشن 27-2026ء کے لیے تیار کیا گیا ہے۔

Punjab Education, Curriculum, Training and Assessment Authority

SMART SYLLABUS / ACCELERATED LEARNING PROGRAMME (ALP)- DELETED TOPICS AND EXERCISE QUESTIONS OF MATHEMATICS-11

To facilitate students, the content of Mathematics-11 has been rationalized and reduced from the compulsory textbook. This rationalization aims to help students focus on the key Student Learning Outcomes (SLOs) that are essential for conceptual understanding and examination preparation, rather than covering the entire textbook. The unit-wise Smart Syllabus (ALP) is provided below. It clearly specifies the exercises, examples, and questions excluded from Mathematics-11 for the BISE Annual Examination-2027. Teachers and students are advised to follow this Smart Syllabus (ALP) for effective teaching, learning, and exam preparation.

Name of the Unit	Excluded Content & Questions of Mathematics-11
1 **Complex Numbers**	• 1.4.1 The Polar Form of a Complex Number, Operations on Complex Numbers in Polar Form, Examples 12 to 16; Pages # 15 to 18. • 1.5 Complex Numbers in the Real World, Examples 17 & 18; Pages # 19 to 20. • Exercise # 1.5: Q # 2 to Q # 22; Pages # 20 to 21.
2 **Functions and Graphs**	• 2.5 Real Life Applications, Examples 12 & 13; Pages # 31 to 32. • Exercise # 2.2: Q # 4 & Q # 5; Page # 33.
3 **Theory of Quadratic Functions**	• 3.5 Real World Problems of Quadratic Equations and Inequalities, Examples 9 & 10; Pages # 41 to 42. • Exercise # 3.2, Q # 2 to Q # 7; Page # 43.
4 **Matrices and Determinants**	• 4.6 Elementary Row Operation on a Matrix; Page # 61 • 4.7 Echelon and Reduced Echelon Form of Matrices, Examples 8 to 10; Pages # 62 to 64. • 4.8 System of Non-Homogeneous Linear Equations, Example # 11; Pages # 64 to 67. • 4.9 System of Homogeneous Linear Equations, Examples 14 & 15; Pages # 71 to 74. • 4.10 Applications of Matrices in Real World, Examples 16 & 17; Pages # 74 to 76. • Exercise # 4.3: Q # 1, 2, 5, 6, 7, 8, 9, 10 & 11; Pages # 76 to 77.

5 **Partial Fractions**	• **Complete unit is retained. No content and questions are deleted / excluded.**
6 **Sequences and Series**	• Exercise # 6.2: Q # 20, 21, 22 & 23; Page # 94. • Exercise # 6.3: Q # 6; Page # 95. • Exercise # 6.4: Q # 17, 18 & 19; Page # 99. • Exercise # 6.5: Q # 7, 8, 9, 10 & 14; Page # 102. • Exercise # 6.6: Q # 7 & 8; Page # 104. • Exercise # 6.7: Q # 6; Page # 105. • 6.8 Arithmetico-Geometric Progression, Example 19, Examples 20 & 21; Pages # 106 to 109. • Exercise # 6.8 (Complete); Pages # 109 to 110. • Exercise # 6.9: Q # 13, 14, 15, 16, 17 & 18; Page # 114. • 6.11 Real Life Problems involving Sequences and Series, Examples 27 to 31; Pages # 117 to 120. • Exercise # 6.11 (Complete); Pages # 121 to 122.
7 **Permutations and Combinations**	• Exercise # 7.2: Q # 6, 9 & 11; Page # 129. • Exercise # 7.3: Q # 9, 10 & 11; Page # 132. • Exercise # 7.4: Q # 4, 5, 6, 17 & 18; Pages # 138 to 139.
8 **Mathematical Induction and Binomial Theorem**	**Complete unit is deleted / excluded.**
9 **Division of Polynomials**	• **Complete unit is retained. No content and questions are deleted / excluded.**
10 **Trigonometric Identities**	• 10.6 Triple Angle Identities, Pages # 192 to 193. • Exercise # 10.3, Q # 2 (viii, ix, x & xii), Q # 5; Pages # 194 to 195. • Exercise # 10.4, Q # 6, 7, 8, 9 &10; Page # 199.
11 **Trigonometric Functions and their Graphs**	• 11.4.1 Graph of Trigonometric Functions; Pages # 205 to 206. • 11.4.2 Graph of y = sin x; Pages # 206 to 207. • 11.4.3 Graph of y = cos x; Pages # 207 to 209. • 11.4.4 Graph of y = tan x; Pages # 209 to 210. • Exercise # 11.2 (Complete); Page # 211.

12 **Limit and Continuity**	• 12.4 Application of Transcendental Functions to Limits and Continuity on Real World Problems, Examples 14 to 17; Pages # 234 to 235. • Exercise # 12.3 (Complete); Pages # 235 to 236.
13 **Differentiations**	• 13.7 Applications of Differentiation, Examples 12 to 15; Pages # 255 to 256. • Exercise # 13.3 (Complete); Pages # 256 to 257.
14 **Vectors in Space**	• Exercise # 14.1: Q # 9 & 10; Page # 266. • Exercise # 14.2: Q # 7, 8 & 12; Page # 274. • 14.4 Scalar Triple Product, Examples 23 to 31; Pages # 283 to 288. • Exercise # 14.4 (Complete); Pages # 289 to 290.

Punjab Education, Curriculum, Training and Assessment Authority

Smart Syllabus / Accelerated Learning Program (ALP)-Deleted Content and Questions for Physics-11 (Annual Examination-2027)

To ensure timely curriculum completion and effective learning for Academic Session 2026-27, selected topics and questions of Physics- 11 have been reduced under the Smart Syllabus / ALP.

This adjustment has been made carefully to prevent any learning loss, content overlap, or conceptual gap for students. The modified scheme retains all core concepts required for progression to higher grades, while maintaining curriculum coherence across science subjects. The detail is as follows:

Chapter No.	Chapter Name	Topics	Page No.	Exercise
1	Measurements	1.1 Physical quantities and their units 1.2 International system of units	2 2-5	MCQs: 1.2, 1.3, 1.4, 1.14, 1.16 Shot answer questions: 1.1, 1.3, 1.4, 1.5 CRQs: 1.1, 1.3, 1.5, 1.6, 1.7, 1.8, 1.9, 1.11 Comprehensive Question: 1.3 (Part-b) Numerical Problems: 1.1, 1.2, 1.8
2	Force and Motion	2.1 Scalars 2.2 Vectors • Only derivation of equations of motion by graphical method 2.10 Elastic collision in two dimensions 2.11 Inelastic collision in two dimensions 2.12 Rocket propulsion • Examples: 2.1, 2.4	20 20-21 25-28 41, 42 42, 43 44 22, 29-30	MCQs: 2.8 Shot answer questions: 2.7 CRQs: 2.3, 2.4 Comprehensive Questions: 2.3, 2.7, 2.8 (only inelastic collision in two dimensions) Numerical Problems: 2.4, 2.10, 2.11, 2.12
3	Circular and Rotational Motion	• Applications of centripetal force • Flywheel • The Gyroscope • Example: 3.2	55, 56 64 64, 65 54	MCQs: 3.6, 3.8, 3.9 Shot answer questions: 3.3, 3.6, 3.8 CRQs: 3.2, 3.5, 3.6, 3.8 Numerical Problems: 3.3, 3.5, 3.10
4	Work, Energy and Power	4.1 Work done by a constant force 4.5 Energy (K.E.) • Examples: 4.3 and 4.5	69, 70 74, 75	MCQs: 4.2, 4.4, 4.8, 4.9 Short answer questions: 4.2, 4.5, 4.8, 4.9 CRQs: 4.2, 4.3, 4.5, 4.7

			75-76 and 82-83	Comprehensive Questions: 4.1, 4.2 (Part-i) Numerical Problems: 4.2, 4.7, 4.8, 4.10
5	Solids and Fluid Dynamics	5.1 Classification of solids 5.4 Determination of Young's modulus of a wire 5.10 Increase in flow velocity 5.15 Real fluids are viscous fluids 5.16 Superfluids	88, 89 91, 92 101 107, 108 108	MCQs: 5.3, 5.9, 5.12 Short answer questions: 5.5, 5.6, 5.10 CRQs: 5.2, 5.5, 5.6 Comprehensive Questions: 5.1, 5.4 Numerical Problems: 5.3, 5.5, 5.6
6	Heat and Thermodynamics	6.1 Assumptions of the kinetic theory of gasses 6.6 Heat engine • Example: 6.1	113-117 122 115	MCQs: 6.3, 6.4, 6.7, 6.8, 6.10 Short answer questions: 6.1, 6.2, 6.9, 6.10, 6.11 CRQs: 6.4, 6.5 Comprehensive Questions: 6.1, 6.2 Numerical Problems: 6.1, 6.2, 6.7, 6.8
7	Waves and Vibrations	7.1 Waves 7.4 Stationary waves and their formation • Tuning musical instruments • Examples: 7.6, 7.9	132-134 139, 140 153 151 and 156	MCQs: 7.1, 7.3, 7.4, 7.9 Short answer questions: 7.4, 7.5 CRQs: 7.1, 7.3 Numerical Problems: 7.1, 7.2, 7.4, 7.5
8	Physical Optics and Gravitational Waves	8.2 Types of Polarization • Optical activity • Space-time distortion / tidal forces • Examples: 8.5, 8.6	169 173, 174 179 181	MCQs: 8.5, 8.8, 8.9, 8.10 Short answer questions: 8.4, 8.5 CRQs: 8.4, 8.6 Comprehensive Questions: 8.1 (Only classify the polarization of waves), 8.8 Numerical Problems: 8.1, 8.5, 8.9
9	Electrostatics and Current Electricity	• Electric field lines • Applications of Gauss's law 9.7 Motion of charged particles in a uniform electric field 9.8 Path of a charged particle	189-191 194 198, 199 199, 200	MCQs: 9.3, 9.6, 9.10 Short answer questions: 9.3, 9.8, 9.9 CRQs: 9.1, 9.2, 9.3 Numerical Problems: 9.3, 9.4, 9.7, 9.9

		9.9 Shielding from external electric field 9.19 Use of a Galvanometer • Examples: 9.9, 9.11	200, 201 214, 215 205, 210-211	
10	Electromagnetism	10.3Magnetic flux linkage 10.5 Velocity selector 10.7 Lenz's law • Examples: 10.2, 10.4, 10.5 and 10.7	227 229, 230 233-235 226, 230, 231, 236	MCQs: 10.2, 10.3, 10.10 Short answer questions: 10.1, 10.4, 10.5, 10.6, 10.7 CRQs: 10.2, 10.3, 10.8 Comprehensive Questions: 10.3 (Only Lenz's law), 10.5 Numerical Problems: 10.7, 10.8, 10.9, 10.11, 10.12
11	Special Theory of Relativity	11.5 Space-time in relativity	249-251	MCQs: 11.1 Shot answer questions: 11.1, 11.4, 11.8 CRQs: 11.1, 11.2 Comprehensive Question: 11.3 Numerical Problems: 11.7, 11.8
12	Nuclear and Particle Physics	12.8 Conservation laws 12.10 Most of the matter in the observable universe is plasma 12.11The theories about the forces between the masses of particles 12.12The standard model	267 267, 268 268, 269 269	MCQs: 12.2, 12.4, 12.5, 12.9, 12.15, 12.16, 12.17 Shot answer questions: 12.2, 12.3, 12.7, 12.11, 12.13, 12.14 CRQs: 12.2, 12.4 Numerical Problems: 12.6

Punjab Education, Curriculum, Training and Assessment Authority

Smart Syllabus / Accelerated Learning Program (ALP)-Deleted Content and Questions of Chemistry-11 for Annual Exam-2027

Unit No.	Unit Name	Deleted / Excluded Topics and Questions
1	Periodic Table and Periodic Properties	Topic: 1.1 (Historical Background), 1.2 (Modern periodic table-main features (Page 2-3),1.4 (Block in Periodic Table) & 1.5 (Families in Periodic Table) (Page 4-5). Multiple Choice Questions (MCQs): I, II Short Answers Questions (SAQs): c, g
2	Atomic Structure	2.3.1 Atomic Spectra) (Page 24), 2.7 (Electronic Configuration and the Periodic Table), 2.8 (Electronic configuration of ions and free radicals), 2.9 (Electronic configuration and the formation of semiconductors) (Page 35-39). Short Answers Questions (SAQs): f, g, i Descriptive Questions (DQs): Q. 5
3	Chemical Bonding	Topic: 3.1 (Types of Bonding), 3.2 (Electronegativity and the type of bond), 3.3 (Intermolecular Forces), 3.4 (Bond Energy and Bond Length), 3.5 (A comparison among ion, covalent, metallic bond and intermolecular forces) (Page 44-51). Multiple Choice Questions (MCQs): I, II, III, VII, XII Short Answers Questions (SAQs): a, b, i, k, l, m, n, o, p
4	Stoichiometry	Topic: 4.7 (Limiting and Excess Reactant) (Page 81-85), 4.9 (Importance of Stoichiometry in production and dosage of medicine) (Page-87) Short Answers Questions (SAQs): g (Page-89) Descriptive Questions (DQs): Q. 3 Numerical Problem: Q. 6

5	States and Phases of Matter	Topic: 5.10 (Energetics of phase changes), 5.11 (Solids) (Page 104-105) Multiple Choice Questions (MCQs): IV Short Answers Questions (SAQs): d, j, Numerical Problems: Q. 8, 9
6	Chemical Energetics	Topic: 6.11 (Entropy), 6.12 (The Free Energy Change) (Page 129-136) Multiple Choice Questions (MCQs): IV, XI, XII Short Answers Questions (SAQs): c, j, Numerical Problems: Q. 9, 10
7	Reaction Kinetics	Topic: 7.5 (Determination of Rate Constant), 7.6 (Reaction Mechanism) (Page 154-158) Multiple Choice Questions (MCQs): VII. VIII. IX, XIII Short Answers Questions (SAQs): c, f, g, h, k, l, m, n, o Descriptive Questions (DQs): Q.4, Q.6 Numerical Problems: Q. 7, 8
8	Chemical Equilibrium	Topic: 8.3 (Relation between macroscopic and microscopic events), 8.4 (Dynamic Equilibrium between two physical states), 8.5 (Conditions for Equilibrium), (Page 166-167), 8.9 (Relationships between various Equilibrium Constants), (Page 172-175), 8.16 (Industrial Applications of Chemical Equilibrium) (Page 179-181) Multiple Choice Questions (MCQs): II, IV, VII Short Answers Questions (SAQs): e, h, i, Descriptive Questions (DQs): Q. 8-9
9	Acid-Base Chemistry	Topic: 9.1 (Bronsted-Lowry Concept), 9.2 (Lewis's concept of acids and bases), (Page 186-188), 9.9 (Salt Hydrolysis), 9.10 (Acid-Base Indicators) (Page 200-204) Multiple Choice Questions (MCQs): I, IV, V, VI, VII, IX

		Short Answers Questions (SAQs): c, d, e, f, k Descriptive Questions (DQs): Q. 3-4 & 7
10	Electrochemistry	Topic: 10.8 (Mass of a substance deposited during Electrolysis), 10.9 (Amount of substance produced during Electrolysis), 10.10 (Avogadro's Constant by the Electrolytic Method) (Page 216-219), 10.16 (Applications of E^{o} values), 10.17 (Variation of E^{o} with Ion Concentration), 10.18 (Nernst Equation), 10.19 (Activity Series of Metals), 10.20 (Feasibility of Redox Reactions from Activity Series or Reaction Data) (Page 224-230), 10.22 (Winkler Method, BOD and DO) (Page 231-232) Multiple Choice Questions (MCQs): I, II, VIII, IX, X, XI Short Answers Questions (SAQs): g, h, i, j Descriptive Questions (DQs): Q. 3-4 Numerical Problems: Q. 7-9
11	Hydrocarbons	Topic: 11.9 (Conjugated Dienes), 11.10 (Isomerism), 11.11 (Organic Redox Reactions) (Page 257-261) Multiple Choice Questions (MCQs): I, X Short Answers Questions (SAQs): a, f, h, j, l Descriptive Questions (DQs): Q. 6
12	Nitrogen and Sulfur	Topic: 12.12 (Role of Sulfur in Organic Synthesis), 12.13 (Sulfuric Acid) (Page 275-280) Multiple Choice Questions (MCQs): IX, X, XI, XII Short Answers Questions (SAQs): i, l, m, n, o, p Descriptive Questions (DQs): Q. 5-6
13	Halogens	Topic: 13.6 (Relative thermal stabilities of hydrogen halides in terms of their bond strength), 13.7 (Relative Reactivity of halide ions as Reducing Agents), 13.8 (Reactions of halides with aqueous silver ion followed by aqueous ammonia), 13.9 (Reactions of halides (X^{-}) with concentrated Sulfuric Acid),13.10 (Reactions of chlorine with cold and hot aqueous sodium hydroxide), (Page 288-293)

		Multiple Choice Questions (MCQs): III, IV, V, VII, IX, X Short Answers Questions (SAQs): k, m, n, o Descriptive Questions (DQs): Q. 3 & 5
14	Atmosphere	Topic: 14.8 (Air Quality), 14.9 (Air Quality and Human Health), 14.10 (Air Pollution and Health Risks), 14.11 (Methods and techniques to measure and monitor Air Quality), 14.12 (Experiments and data collection to test hypothesis about Air Quality), 14.13 (Analyze data and interpret Air Quality),14.14 (Strategies used to reduce Air Pollution), 14.15 (Laws and regulations related to atmosphere), 14.16 (Economic, social and political issues) (Page 306-311). Multiple Choice Questions (MCQs): III, IV, VIII, XI Short Answers Questions (SAQs): d, e, h, i, k, l, m Descriptive Questions (DQs): Q.6
15	Basic Separation Techniques	**Full chapter is deleted / excluded**
16	Lab Safety and Practical Skills	**Full chapter is deleted / excluded**

Punjab Education, Curriculum, Training & Assessment Authority
Smart Syllabus / Accelerated Learning Program (ALP)-Deleted Topics and Exercise Questions for Biology-11 (Academic Session 2026-27)

To ensure timely curriculum completion and effective learning within the educational calendar of the Academic Session 2026-27, the following topics of Biology-11 have been deleted under the Accelerated Learning Program (ALP). This adjustment has been made carefully to prevent any learning loss, content overlap or conceptual gap for students. The modified scheme retains all core concepts required for progression to higher grades, while maintaining curriculum coherence across science subjects.

Chapter No. / Name	Deleted Topics and Exercise Questions	Page No.
1 Biodiversity and Classification	How are Archaea unique?	2-3
	• 1.2 Taxonomic Hierarchy	5-7
	• Table	7
	• 1.5 Classification of Vertebrates	19-25
	• 1.6 Classification of Viruses	25-26
	• 1.7 Biodiversity	27-29
	• 1.8 Species and Speciation	29-30
	• MCQs No.1-2 & 5-10	30-31
	• Long Questions No. 1-2 & 6-11	32
	• Inquisitive Questions (All)	32
2 Bacteria and Viruses	• 2.3 Motility in Bacteria	37
	• 2.5 Bacteria; Ecology and Diversity	39-41
	• 2.6 Importance of Bacteria	41-42
	• MCQs No. 4, 6 & 8	45-46
	• Short Questions No. 11-14	46-47
	• Long Questions No. 2, 5 & 6	47
	• Inquisitive Questions (All)	47
3 Cells and Subcellular Organelles	• 3.1 Cells –The Basic Unit of Life	48-49
	• 3.2 Cell Theory	49-51
	• 3.3 Microscopy	51-54
	• Techniques to study the structure of plasma membrane	58-59
	• Difference between Eukaryotic and Prokaryotic Cells	76-77
	• Short Questions No. 1 & 2	88
	• Inquisitive Questions (All)	90

4 Molecular Biology	• 4.1 Biological Molecules	92-93
	• 4.2 Types of Bonds in Biology	93-94
	• 4.3 Condensation (Synthesis) and Hydrolysis	94-95
	• Figure 4.38 and side box	118
	• Figure 4.43 Only structure of NAD	121
	• Short Question No. 1	125
	• Long Questions No. 1, 2	126
	• Inquisitive Questions (All)	126
5 Enzymes	• 5.4 Factors affecting the rate of enzyme action	131-133
	• MCQ No. 6	138
	• Short Question No. 7	139
	• Long Questions No. 5-8	139
	• Inquisitive Questions (All)	139
6 Bioenergetics	• ATP; The Energy Currency of Cells	141
	• Role of Photosynthetic Pigments, Chlorophylls, Accessory Pigments	144-145
	• Other Organic Molecules as Fuel for Cellular Respiration	161
	• 6.3 Photorespiration	161-164
	• Short Questions No. 7 & 10	165
	• Long Questions No. 1 & 13-16	165-166
	• Inquisitive Questions (All)	166
7 Structural and Computational Biology	Entire unit is deleted along with its all MCQs, Short questions, Long questions and Inquisitive questions	167-176
8 Plant Physiology	• 8.1 Nutrition in Plants	177-180
	• 8.3 Support in Plants	182-183
	• 8.4 Water Potential	183-184
	• Plant Growth Regulators	192-194
	• MCQ No. 10	200
	• Short Questions No. 1-3	201
	• Inquisitive Questions (All)	201
9 Human Digestive System	• Storage and Metabolic Role of the Liver	212
	• MCQ No. 10	213
	• Inquisitive Questions (All)	214

10 Human Respiratory System	• Properties of the Respiratory Surface	216
	• 10.2 Transport of Gases	221-223
	• Otitis media	226
	• MCQs No. 6 & 7	229
	• Short Questions No. 1 & 6	230
	• Long Questions No. 2 & 3	230
	• Inquisitive Questions (All)	230
11 Human Circulatory System	• 11.2 Blood vessels	238-242
	• 11.4 Cardiovascular Disorders	246-249
	• MCQ No. 1	252
	• Short Questions No. 1, 5, 7, 8 & 10	253
	• Long Questions No. 4, 5 & 9-13	253-254
	• Inquisitive Questions (All)	254
12 Human Skeletal and Muscular Systems	• Bone Development	257-258
	• Box	264
	• Both boxes	265
	• 12.2 Disorders of Skeletal System	266-270
	• Difference between Tetany and Tetanus and Boxes	277
	• Short Questions No. 8, 9 & following two parts of Q. 15: ○ Rheumatoid arthritis and osteoarthritis ○ Tetany and tetanus	278-279
	• Long Questions No. 3, 4, 11 & 12	279
	• Inquisitive Questions (All)	279

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Smart Syllabus / Accelerated Learning Program (ALP)-Deleted Topics and Exercise Questions for Computer Science & Entrepreneurship Grade-11

For the convenience of Grade-11 students, following content from the textbook of Computer Science and Entrepreneurship-11 are being deleted / excluded so that the syllabus can be reduced and made more manageable. It is mandatory for exam paper setters not to include any objective, subjective or other types of questions from the content that have been excluded when preparing the examination papers.

Detail of excluded content for Computer Science and Entrepreneurship-11 is as under:

Unit No.	Unit Name	Deleted Topics and Exercise Questions	Page No.
1.	Introduction to Software Development	• 1.5 Graphical Representation of Software Systems	9-13
		• **Exercise:** MCQ No. 7	18
		• Short Questions No. 5, 6	19
		• Long Questions No. 1, 3, 4	19
2.	Python Programming	• 2.8 Object-Oriented Programming in Python	35-36
		• 2.9 Advanced Python Concepts	36-37
		• 2.10 Testing and Debugging in Python	38
		• **Exercise:** MCQ No. 6	39
		• Short Questions No. 5, 8	40
		• Long Questions No. 1 (a, c)	40
3.	Algorithms and Problem Solving	• 3.3.3 Complexity Classes (P, NP, NP-hard, NP-complete)	45-46
		• **Exercise:** MCQs No. Q 2- 4	54
		• Long Questions No. 1	55
4.	Computational Structures	• No Topic and Exercise Questions are deleted. (Complete Chapter / Exercise is retained.)	---
5.	Data Analytics	• 5.3 Building Statistical Models	74-79
		• 5.4.1.5 Boxplots	82
		• **Exercise:** MCQs No. Q 1, 4, 5, 7, 8	84-85
		• Short Questions No. 1, 2	85
		• Long Questions No. 1, 2	85

Unit No.	Unit Name	• Deleted Topics and Exercise Questions	Page No.
6.	Emerging Technologies	• 6.4 Introduction to Blockchain Technology • 6.5 Applications and Implications of Blockchain • **Exercise:** MCQs No. Q 3, 5, 8 • Short Questions No. 1, 2 • Long Question No. 4	92-95 95-97 99 100 100
7.	Legal and Ethical Aspects of Computing System	• 7.3 The Digital Divide and its Impacts • **Exercise:** MCQ No. 5 • Short Question No. 3 • Long Question No. 2	106-108 113 114 114
8.	Online Research and Digital Literacy	• No Topic and Exercise Questions are deleted. (Complete Chapter / Exercise is retained.)	---
9.	Entrepreneurship in Digital Age	• 9.5 Financial Concepts for Business • **Exercise:** MCQ No. 8 • Short Question No. 7	133-135 140 140