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2nd Year
Smart Syllabus 2027

All 8 subjects in one PDF | Punjab Boards Annual Examination 2027

Source: PECTAA notification No. PECTAA/C&C Unit/2026/1258 (14 Nov 2026)

Contents

COMPULSORY

English page 2
Urdu page 3
Pakistan Studies page 4

SCIENCE

Mathematics page 5
Physics page 7
Chemistry page 10
Biology page 16
Computer Science & Entrepreneurship page 19

Annex-A

Smart Syllabus / Accelerated Learning Program (ALP)
English Grade-12
for Academic Session 2026-27 & BISE Exam-2027

Total Units: 13 Excluded Units: 05 Remaining Units: 08

Details of Excluded Units:

Sr. No.	Unit No. & Name	Pages
1.	**Unit 2:** The Last Lesson	08 to 16
2.	**Unit 3:** On His Blindness (Poem)	17 to 22
3.	**Unit 6:** The Fun They Had	39 to 44
4.	**Unit 8:** The Devoted Friend	50 to 61
5.	**Unit 12:** A Visit to the Swat Valley	90 to 98

Pairing Scheme

Instructions for Preparation of Exam Paper of English-12 (Intermediate Part-II)

The paper of English for Grade-12 will consist of **100** marks.

Objective Type = 20 Marks Time: 30 minutes
Subjective Type = 80 Marks Time: 2:30 hours

The paper will be made as per the following details/ instructions:

Objective Type (Part-II)		
Time: 30 Minutes		**20 Marks**
Question No. 1 (Each item will carry 01 Mark.)		
Contents taken from:	**Items**	**Marks**
Unit No. 1, 4 and 5 from English 12 (Text + Exercises)	4 Synonyms from the mentioned units.	4 Marks
Unit No. 7, 9, 10 and 11 from English 12 (Text + Exercises)	3 Synonyms from the mentioned units.	3 Marks
Unit No. 13 (Novel) from English 12 (Text + Exercise)	3 Antonyms from the mentioned unit.	3 Marks

سمارٹ سلیبس [Smart Syllabus]

مضمون: اردو برائے بارھویں جماعت (XII)

اردو (لازمی) برائے جماعت بارھویں (XII) کی درسی کتاب میں سے طلبہ کی سہولت کے پیشِ نظر چھے (6) اسباق حذف کیے جارہے ہیں تاکہ طلبہ بائیس (22) کے بجائے سولہ (16) اسباق پر توجہ مرکوز کرتے ہوئے بھرپور تیاری کرسکیں۔

حذف شدہ اسباق کی تفصیل:۔

نمبر شمار	حصّہ	عنوانات	صفحہ نمبر
1	حصّہ نثر	محشر از غوث بہار	48 تا 56
2	حصّہ نثر	سیر دوسرے درویش کی از میر امّن دہلوی	64 تا 69
3	حصّہ نثر	بہادر خان کی سرگزشت از پروفیسر انور رومان	71 تا 77
4	حصّہ نثر	حکیم احسن اللہ خان از شمس الرحمٰن فاروقی	79 تا 86
5	حصّہ نظم	نئی نسل کا نوحہ از امجد اسلام امجدؔ	111 تا 113
6	حصّہ غزل	وہی خواب آنکھوں میں۔۔۔ از محسنؔ احسان	137 تا 139

امتحانی بورڈ کے پرچہ مرتبین کے لیے لازم ہے کہ سوالیہ پرچہ ترتیب دیتے وقت درج بالا اسباق میں سے معروضی، انشائی اور دیگر نوعیت کے سوالات (کُلّی یا جزوی صورت میں) شامل نہ کریں۔

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PECTAA Transformation, Innovation and Excellence	**Smart Syllabus / Accelerated Learning Programme (ALP) of Pakistan Studies Grade-12 for Academic Session 2026-27 & BISE Exam 2027**

سمارٹ سلیبس (ALP)

برائے مضمون مطالعہء پاکستان جماعت بارھویں تعلیمی سیشن 27-2026ء

مطالعہء پاکستان برائے جماعت بارھویں کی درسی کتاب میں سے طلبہ کی سہولت کے پیش نظر دو ابواب حذف کیے جا رہے ہیں تا کہ طلبہ چھے کے بجائے چار اسباق پر توجہ مرکوز کرتے ہوئے بھرپور تیاری کر سکیں۔

حذف شدہ ابواب کی تفصیل:

باب سوم	پاکستان کا انتظامی نظام	صفحہ 34 تا 48
باب چہارم	پاکستان کے وسائل اور معاشی ترقی	صفحہ 49 تا 67

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

Smart Syllabus / Accelerated Learning Programme (ALP) of Mathematics Grade-12 for Academic Session 2026-27 & BISE Exam-2027

Unit No.	Name of the Unit	Excluded Content & Examples / Questions
1	**Graphical Representation of Functions**	• Example 3; Page 3. • Exercise 1.1, Q. 1 (v) and Q. 2; Page 4. • (iii) Exponential Function is Strictly Increasing or Strictly Decreasing (1.4 Exponential Functions); Page 7. • Horizontal Asymptote of Exponential Function; Page 8, examples 6 & 7. • 1.5.2 Graphs of Hyperbolic Functions; Pages 10 to 12. • Exercise 1.2, Q. 1, 2, 3, 4 & 6; Pages 14 to 15. • 1.6.1 Graphical behavior of logarithmic functions. • Exercise 1.3, Q. 1, 3, 5, 7, 8 & 9; Pages 23 to 24. • Example 20 (1.10 Solving Problems Involving Exponential and Logarithmic Equations and Inequalities); Pages 27 to 28. • Exercise 1.4, Q. 1 (iii & v), Q. 2 (v & vi); Page 28. • 1.11 Applications of Exponential and Logarithmic Functions in Real-Life Situations, Examples 21 to 27; Pages 28 to 32. • Exercise 1.5, Q. 4, 7, 8, 11 & 12; Page 33.
2	**Further Differentiation**	• Exercise 2.3, Q. 2 & 6; Pages 47 to 48. • Exercise 2.4, Q. 1 (iv), Q. 2 (iv & v), Q.3 & 5; Pages 55 to 56. • Exercise 2.5, Q. 2 (b), Q. 3 (ii), Q. 4 (i); Page 59. • Exercise 2.6, Q. 2 (ii), Q. 3 (i & iii), Q. 5; Page 64. • Exercise 2.7, Q. 1, 4, 5 & 7; Page 70.
3	**Integration**	• Examples 11 & 12; Pages 75 to 76. • Exercise 3.1, Q. 3 (viii, ix, x & xii); Pages 76 to 77. • Exercise 3.2, Q. 1 (iii, v & viii), Q.2 (v, ix, xi, xiii & xiv); Page 84. • Examples 35, 38 & 39 (3.4 Integration by Parts); Pages 86 to 89. • Exercise 3.3, Q.11, 15, 16, 20 & 23; Page 90. • Exercise 3.4, Q. 4, 5, 6, 9, 12, 13, 14 & 15; Page 94. • Examples 49 to 56 (3.6 The Definite Integral and its Properties); Pages 98 to 101. • Exercise 3.5, Q. 1 (vi, vii & ix), Q. 3, Q. 6 (iii), Q. 7, 10, 12, 14, Q. 15 (i & iv), Q. 16 (iv); Pages 101 to 103. • Exercise 3.6, Q. 2, Q. 3 (iii & iv), Q. 11, 12, 13, 14 & 15; Pages 114 to 115. • Exercise 3.7, Q. 1, 2, 7, 10, 11 & 12; Pages 121 to 123.

Unit No.	Name of the Unit	Excluded Content & Examples / Questions
4	**Differential Equations**	• Exercise 4.1, Q. 1 (v), Q. 2, 3, 4, 5 & 6 (4.2.4 Flow of Electricity in Series Circuits); Pages 128 to 129. • 4.5 Applications of First-Order Differential Equations in Real-Life Problems, Examples 8 to 12; Pages 138 to 142. • Exercise 4.3, Q. 5, 6, 7, 8, 9 & 10; Page 143.
5	**Analytical Geometry**	• Exercise 5.1, Q. 4, 5, Q. 7 (vi), Q.8 & 11; Page 158. • Exercise 5.2, Q. 6, 7 & 9; Page 162. • Exercise 5.3, Q. 11 & 12; Page 166.
6	**Conics**	• Examples 8 & 9 (6.1 Circle); Pages 175 to 176. • Exercise 6.1, Q. 4, 8, 10 & 12; Page 177. • Example 14 (6.2 Tangent and Normal to a Conic); Pages 183 to 184. • Exercise 6.2, Q. 5 & 6; Page 187. • Exercise 6.3, Q. 5, 6 & 7; Pages 192 to 193. • Exercise 6.4, Q. 5, 6, 7, 11, 12 & 13; Pages 202 to 203. • Exercise 6.5, Q.3, 6, 9, 11, 12, 14, 18, 19 & 20; Pages 215 to 216. • Exercise 6.6, Q. 6 to 11; Pages 221 to 222.
7	**Kinematics**	• Exercise 7, Q. 1 to 5; Page 235.
8	**Numerical Solutions of Nonlinear Equations**	• Exercise 8.2, Q. 1 (i & iii), Q. 2 (ii & iii), Q. 3 (iv & v); Pages 248 to 249. • Exercise 8.3, Q. 1, 2, 7 & 8; Page 253. • Exercise 8.4 (Complete); Page 258.
9	**Inverse Trigonometric Functions and Their Graphs**	• Graphs of Inverse Trigonometric Functions (Figures 9.1 to 9.15), Section 9.1; Pages 259 to 269. • Exercise 9.2, Q. 11, 12, 13, 17, 18, 20 & 21; Pages 277 to 278.
10	**Solution of Trigonometric Equations**	• Exercise 10.1, Q. 14, 19 to 24; Page 283. • Exercise 10.2, Q. 1 to 5; Page 288.
11	**Vector Valued Functions and Their Derivatives**	• Exercise 11.3 (Complete); Pages 297 to 298.

Smart Syllabus / Accelerated Learning Programme (ALP) Physics Grade-12 for Academic Session 2026-27 & BISE Exam-2027

Chapter No.	Chapter Name	Topics	Page No.	Exercise
13	Thermal Physics	13.6: Stellar evolution Examples: 13.3, 13.4, 13.5	9 – 11 12	MCQs: 13.7, 13.8 Short answer questions: 13.7, 13.8 CRQs: 13.3, 13.4 Comprehensive Questions: 13.4, 13.6 Numerical Problems: 13.5, 13.6
14	Simple Harmonic Motion	14.4: Simple harmonic motion and uniform circular motion Example: 14.3 14.6: Graphical representation of S.H.M 14.11: Sharpness of resonance	22 – 25 25 28 35 – 38	MCQs: 14.8 Short answer questions: 14.5, 14.7 CRQs: 14.4, 14.5 Comprehensive Question: 14.2 Numerical Problems: 14.1, 14.3, 14.4
15	Physical Optics	15.4: Interference of microwaves 15.7: Newton's rings 15.8: Diffraction grating	45, 46 50, 51 51, 52	MCQs: 15.2, 15.3, 15.7, 15.8 Short answer questions: 15.6, 15.7, 15.8, 15.9 CRQs: 15.4 Numerical Problems: 15.5, 15.6, 15.7
16	Electrostatics	16.6: Combined capacitance of capacitors Example: 16.5 Example: 16.6 Example: 16.7 16.9: Exponential decay of discharging capacitor through resistor Example: 16.10	68 - 70 68, 69 70, 71 72, 73 75 – 77 77	MCQs: 16.4, 16.8, 16.10 Short answer questions: 16.6, 16.7 CRQs: 16.4, 16.5 Comprehensive Questions: 16.3, 16.5 Numerical Problems: 16.6, 16.8, 16.9
17		Example: 17.1	86	MCQs: 17.1, 17.3, 17.7, 17.8

	Alternating Current	17.10: AC through RC-series circuit 17.11: AC through RL-series circuit Example: 17.5 17.12: Rectification	95, 96 96 – 98 96 98 – 101	Short answer questions: 17.4, 17.6 CRQs: 17.6 Comprehensive Questions: 17.3, 17.4 Numerical Problems: 17.1, 17.6
18	Quantum Physics	18.5: Wave particle duality 18.6: Electron microscope 18.7: Atomic spectra	118, 119 119 119-122	MCQs: 18.2, 18.4, 18.6, 18.8, 18.9 Short answer questions: 18.8, 18.9, 18.10 CRQs: 18.1, 18.3, 18.5, 18.9, 18.10 Comprehensive Questions: 18.3, 18.4 Numerical Problems: 18.2, 18.7, 18.8
19	Nuclear and Particle Physics	19.3: Nuclear reactor 19.6: Radioactive tracers 19.7: Annihilation reactions Example: 19.4	134-136 141, 142 142 143	MCQs: 19.3, 19.4, 19.5, 19.9 Short answer questions: 19.4, 19.5, 19.6 CRQs: 19.1, 19.2, 19.6 Comprehensive Questions: 19.3, 19.5 Numerical Problems: 19.5, 19.6
20	Medical Physics	20.4: Computed tomography scanning (CT-Scan) 20.5: Positron emission tomography scanning (PET- Scan)	152, 153 153, 154	MCQs: 20.1, 20.2, 20.6, 20.9 Short answer questions: 20.1, 20.6 CRQs: 20.1, 20.4, 20.5, 20.6 Comprehensive Questions: 20.4, 20.5
21	Space and Environment	21.6: Emission and absorption spectra from different stars 21.7: Cosmic redshift: evidence for an expanding universe 21.10: Ocean currents and wind patterns 21.15: Satellite remote sensing	161, 162 162 165, 166 169, 170	MCQs: 21.6, 21.9, 21.10 Short answer questions: 21.5, 21.7 CRQs: 21.1, 21.3, 21.5, 21.6 Comprehensive Questions: 21.5, 21.6 Numerical Problems: 21.6, 21.7

LIST OF EXCLUDED PHYSICS-11 PRACTICALS FOR ACADEMIC SESSION 2026-2027

- Investigate momentum conservation by colliding trolleys and ticker-timer for elastic and inelastic collisions.
- Determine the moment of inertia of a flywheel.
- Investigate the fall of spherical steel balls through a viscous medium and determine: (i) terminal velocity (ii) coefficient of viscosity of the fluid.
- Investigate the laws of vibration of stretched strings by sonometer or electromagnetic method.
- Determine Young's modulus of the material of a given wire using Searle's apparatus.
- Determine emf of a cell using potentiometer.
- Investigate the relationship between current passing through a tungsten filament lamp and the potential applied across it.

LIST OF EXCLUDED PHYSICS-12 PRACTICALS FOR ACADEMIC SESSION 2026-2027

- Determine the wavelength of light by using a diffraction grating.
- Determine the slit separation of a diffraction grating by using laser light of known wavelength.
- Measure the diameter of a wire or hair using laser.
- Determine the pick count of a nylon mesh by using a diffraction grating and a laser.
- Determine resistance of voltmeter by discharging a capacitor through it.
- Determine time constant by charging and discharging a capacitor through a resistor.
- Determine the impedance of a RL circuit at 50Hz and hence find inductance.
- Determine the impedance of a RC circuit at 50Hz and hence find capacitance.
- Observe the line spectrum of mercury with diffraction grating and spectrometer to determine the wavelength of several different lines, and hence, draw a conclusion about the width of visible spectrum.

Smart Syllabus /Accelerated Learning Programme (ALP) Chemistry Grade-12 for Academic Session 2026-27 & BISE Exam-2027

Note: All types of questions for BISE Examination paper will be prepared from the entire content of the textbook other than those topics and questions which have been excluded / deleted in the Smart Syllabus (ALP) for Chemistry-12 (Session 2026-27).

Chapter No.	Chapter Name	Deleted Topics and Exercise Questions	Page No.
17	Group 2 Elements	**17.5:** Solubility of Group 2 Sulphates and Hydroxides **17.6:** Complex Ion Formation **17.8:** Uses of Group 2 Compounds Quick Check: 17.3 & 17.4 Multiple Choice Questions (MCQs): viii, ix & x Short Answer Questions (SAQs): b, f & h Constructed Response Questions (CRQs): C Descriptive Questions (DQs): 06	(P 7-8) (P 8-9) (P 10-11)
18	Transition Metals	**18.9:** Stereoisomerism in Transition metal complexes **18.10:** Redox Reaction of Transition metals Quick Check: 18.7 & 18.8 Multiple Choice Questions (MCQs): ix Short Answer Questions (SAQs): g, j & k Constructed Response Questions (CRQs): a & b Descriptive Questions (DQs): 7 & 8	(P 28-29) (P 30-31)
19	Basics of Organic Chemistry	**19.8:** Mechanisms of Chemical Reactions **19.9:** Isomerism **19.10:** Stereochemistry in drug development Quick Check: 19.6 (c) & 19.7 Multiple Choice Questions (MCQs): iii, V, VI, VII, VIII & IX Short Answer Questions (SAQs): a, f, g, h, & i Constructed Response Questions (CRQs): b, c, & d Descriptive Questions (DQs): 5, 6 & 7	(P 46-47) (P 47-51) (P 52)

Chapter No.	Chapter Name	Deleted Topics and Exercise Questions	Page No.
20	Aromatic Hydrocarbons	**20.3:** Comparison of reactivity of benzene with alkanes and alkenes. **20.6:** Other Reactions of Benzene Quick Check: 20.7 Multiple Choice Questions (MCQs): Nil Short Answer Questions (SAQs): Nil Constructed Response Questions (CRQs): a & b Descriptive Questions (DQs): Nil	(P 60) (P 65-67)
21	Halogenoalkanes	**21.4:** Examples of reactions of Halogenoalkanes **21.5:** Halogenoarenes Quick Check: 21.3 & 21.4 Multiple Choice Questions (MCQs): IX Short Answer Questions (SAQs): g, h & i Constructed Response Questions (CRQs): e Descriptive Questions (DQs): 6	(P 78-79) (P 80)
22`	Hydroxy Compounds	**22.2:** Acidity of Alcohols & Phenols **22.6.2:** Reactions of Aromatic Ring in Phenols Quick Check: 22.2 & 22.5 Multiple Choice Questions (MCQs): VII & VIII Short Answer Questions (SAQs): b, C (ii) & f Constructed Response Questions (CRQs): a & d Descriptive Questions (DQs): 4 & 7	(P 86-87) (P 92-93)
23	Carbonyl Compounds and Carboxylic Acids	**23.3:** Oxidation of Aldehydes and Ketones **23.8:** Acyl Chlorides **23.9:** Hydrolysis of Acyl Chlorides, Alkyl Chlorides & Aryl Chlorides Quick Check: 23.3 (b,c) & 23.5 Multiple Choice Questions (MCQs): II & X Short Answer Questions (SAQs): c & g Constructed Response Questions (CRQs): c Descriptive Questions (DQs): 9	(P 102-103) (P 110) (P 110-111)

Chapter No.	Chapter Name	Deleted Topics and Exercise Questions	Page No.
24	Organic Nitrogen Compounds	**24.3.2:** Distinction between Primary and Secondary Amines	(P 119)
		24.3.3: Reactions of Phenyl amines (Aromatic Amines)	(P 119-121)
		24.4: Alkanenitriles	(P 122)
		24.5: Amides	(P 122-124)
		Quick Check: 24.4	
		Multiple Choice Questions (MCQs): IV, V, VI, VII & VIII	
		Short Answer Questions (SAQs): c, d, f, h & k	
		Constructed Response Questions (CRQs): a, b, & c	
		Descriptive Questions (DQs): 7	
25	Organic Synthesis	**25.2:** Retro synthesis and Synthesis of Some Compounds	(P 132-133)
		25.3: Synthesis of Pharmaceutical Products	(P134-136)
		25.4: Use of artificial intelligence (AI) in drug Designing	(P 137)
		Quick Check: 25.2 & 25.3	
		Multiple Choice Questions (MCQs): VII	
		Short Answer Questions (SAQs): h & j	
		Constructed Response Questions (CRQs): b	
		Descriptive Questions (DQs): 4, 5 & 6	
26	Polymers	**26.2:** Nylon	(P 145-146)
		26.3: Identification of the type of a polymer, repeat Unit and monomers from a polymer section	(P 147-148)
		26.5: Challenge of Non-degradable Polymer	(P 150-151)
		26.6: Polymer in Artificial Organs	(P 151-152)
		Quick Check: 26.1 & 26.2	
		Multiple Choice Questions (MCQs): IV, V, VI, IX & X	
		Short Answer Questions (SAQs): a, d, f, h, i & J	
		Constructed Response Questions (CRQs): b	
		Descriptive Questions (DQs): 6	

Chapter No.	Chapter Name	Deleted Topics and Exercise Questions	Page No.
27	Biochemistry	**27.1.1:** Nutritional Importance of Carbohydrates **27.2.2:** Biological functions of Proteins **27.3:** Enzymes As Biocatalysts **27.4.4:** Nutritional and Biological importance of Lipids **27.5:** Nucleic Acids **27.6:** Minerals Quick Check: 27.1 (c), 27.2 (d, e), 27.3, 27.4 (b) & 27.5 Multiple Choice Questions (MCQs): IV, V, IX, & X Short Answer Questions (SAQs): g, h, i, j, k & l Constructed Response Questions (CRQs): d & e Descriptive Questions (DQs): 7	(P 158) (P 161-162) (P 162-164) (P 166) (P 167-169) (P 169-170)
28	Chromatography	**28.4:** Gas Chromatography Multiple Choice Questions (MCQs): VII, VIII, IX & X Quick Check: 28.2 Short Answer Questions (SAQs): f, g & h Constructed Response Questions (CRQs): b Descriptive Questions (DQs): 6	(P 176-178)
29	Spectroscopy-1	**29.1:** Index of Hydrogen Deficiency **29.2**: Atomic Spectrum **29.6:** Mass Spectrometry Quick Check: 29.1 & 29.4 Multiple Choice Questions (MCQs): V, VI, VII, & VIII Short Answer Questions (SAQs): a & d Constructed Response Questions (CRQs): a Descriptive Questions (DQs): 5 & 6	(P 182-183) (P 184) (190-194)

Chapter No.	Chapter Name	Deleted Topics and Exercise Questions	Page No.
30	Spectroscopy-2 NMR	**30.7:** ^{13}C NMR Spectroscopy Quick Check: 30. 6 & 30.7 Multiple Choice Questions (MCQs): VII, VIII, IX & X Short Answer Questions (SAQs): c & f Constructed Response Questions (CRQs): Nil Descriptive Questions (DQs): 6	(P 209)
31	Materials and Energy	**31.2:** Toxicity and Recycling in Material Science **31.7**: Energy Density and Specific Energy **31.8:** Solar energy and Photovoltaic Cell Multiple Choice Questions (MCQs): V, VI & VIII Short Answer Questions (SAQs): a, b, d, g & h Constructed Response Questions (CRQs): d Descriptive Questions (DQs): 7	(P 216-218) (P 223-224) (P 224-225)
32	Medicine, Agriculture and Industry	**32.1** Therapeutic Index and Therapeutic windows **32.3.2** Opiates and Opioid receptors **32.4** Challenges in treating viral infections **32.8** Effect of Climate Change on crops **32.9** Genetic Engineering **32.13** Applications of Industrial Chemistry **32.14** Safety measure and Precautions Quick Check: 32.1, 32.2 (c) & 32.3 Multiple Choice Questions (MCQs): I, III, VI, X Short Answer Questions (SAQs): a, c, d, f & j Constructed Response Questions (CRQs): a & c Descriptive Questions (DQs): 5, 6 & 8	(P 228-229) (P 230) (P 231) (P 234-235) (P 235) (P 238) (P 238)

Chapter No.	Chapter Name	Deleted Topics and Exercise Questions	Page No.
33	Water	**33.4:** Water Pollution due to human activities **33.5**: Effect of water pollution on the environment **33.7:** Protection and Conversation of water Resources **33.8:** Rules and regulations regarding water pollution and conservation Quick Check: 33.4 & 33.5 Multiple Choice Questions (MCQs): Nil Short Answer Questions (SAQs): g, I, j Constructed Response Questions (CRQs): c & d Descriptive Questions (DQs): 7	(P 249-250) (P 250-251) (253-254) (P 254)

Smart Syllabus / Accelerated Learning Programme (ALP) Biology Grade-12 for Academic Session 2026-27 & BISE Exam-2027

Chapter No. / Name	Excluded Topics and Exercise Questions	Page No.
13. Thermoregulation and Osmoregulation	• 13.1.1/Basic mechanism of homeostasis	1-2
	• 13.2.3/ Nature of Excretory Products in relation to Habitat	7-8 32
	• MCQ No. 6, 7 & 8	11
	• Short answers No. 4 last two bullets	12
	• Long questions No. 1 & 4	12
	• All Inquisitive Questions	12
14. Human Urinary System	• 14.3/ Disorders of Urinary Tract	19-24
	• MCQ No. 9 & 10	25
	• Short answers No. 6, 7, 8 (ii & iii)	25
	• Long questions No. 5, 6 & 7	25
	• All Inquisitive Questions	25
15. Human Nervous System	• Table: Twelve pairs of Cranial Nerves &their Functions	43
	• Table: effects of Autonomic Nervous System on Body Parts	45
	• 15.6/ Receptors in Human Body	45-48
	• 15.7/ Effects of Drugs on Nervous Coordination	48-51
	• 15.8/ Disorders of Nervous System	51-53
	• 15.9/ Diagnostic Tests for Nervous Disorders	53-55
	• MCQ No. 12-17	57
	• Short answers No. 1, 2, 7-11, 12 last bullet	57-58
	• Long questions No. 12-18	58
	• All Inquisitive Questions	58
16. Human Endocrine System	• 16.1.1/Chemical Nature of Hormones	59-61
	• Box: Artificially synthesized steroids	70
	• 16.2.8/ Other Endocrine glands/tissues	70-71
	• 16.3/ Feedback Mechanism in Endocrine System	71-72
	• MCQ No. 5	73
	• Short answers No. 1, 2, & 9 last bullet	73-74
	• Long questions No. 2 & 7	74
	• All Inquisitive Questions	74

Chapter No. / Name	Excluded Topics and Exercise Questions	Page No.
17. Human Reproductive System	• All Inquisitive Questions	84
18. Inheritance	• 18.2.1/ Limitations to the Law of Independent Assortment • 18.2.2/ Inheritance and Mathematical Probabilities along with the box • 18.5/ Polygenic inheritance and Epistasis • 18.8.3/Sex Limited and Sex Influenced Traits • MCQ No. 9 & 13 • Short answers No. 1, 2, 12, 15 (iv& v), 16 (Bullet No. 6, 9 and 10) • Long questions No. 4, 5 & 11 • All Inquisitive Questions	90-91 91-92 98-102 112-113 114-115 115-116 116 116
19. Chromosomes and DNA	• Difference between DNA replication in prokaryotes and Eukaryotes • Stability and Variability in DNA • 19.7/ Regulating Gene Expression • Box: Minor Mutations in Humans • Box: Possible ways to treat Genetic Diseases • Tidbit • Short answers No. 7, 8 (Repressor and Activated proteins) • Long questions No. 11, 12 • All Inquisitive Questions	131 131 142-144 146 148 152 154-155 155 156 156
20. Biotechnology	• 20.4/ Genetically Modified Organisms (GMO) • MCQ No. 10 • Short answers No. 5 • All Inquisitive Questions	164-167 169 169 170
21. Immunity	• 21.3.2/Cell Mediated and Antibody mediated Immunity • MCQ No. 10 • Short answers 7 last bullet • Long questions No. 6 & 7 • All Inquisitive Questions	179-184 186 187 187 187
22. Biostatistics	Whole chapter is deleted.	188-209
23. Pharmacology	• 23.4/ Monoclonal Antibodies • MCQ No. 6	214-215 215

Chapter No. / Name	Excluded Topics and Exercise Questions	Page No.
	• Short answers 5	216
	• Long questions No. 3	216
	• All Inquisitive Questions	216
24. Evolution	• 24.3/ Evidences of Evolution	221-223
	• MCQ No. 2, 3 & 8	227
	• Short answers No. 2, 3 & 8 (second bullet)	228
	• Long questions No. 3, 4, 5 & 6	228
	• All Inquisitive Questions	228
25. Ecology	• 25.1/Levels of Ecological Organization	230-232
	• 25.4/ Characteristics of Population	237-240
	• 25.6/ Important Ecosystem of Pakistan	243-246
	• MCQ No. 1 & 5	246-247
	• Short answers No. 5, 6, 9, 10, 11, 12 (1, 3 and 4 bullet)	248
	• Long questions No. 4, 6 & 7	248
	• All Inquisitive Questions	248

Smart Syllabus / Accelerated Learning Program (ALP) for Computer Science & Entrepreneurship Grade-12 for Academic Session 2026-27 & BISE Exam-2027

Details of excluded content for Computer Science and Entrepreneurship-12 are as under:

NOTE: No question should be included from excluded topics in any section, including: Unit Summary, Content-based questions, Exercises, MCQs, Short questions and Essay Type (Long) questions.

Unit No.	Unit Name	Excluded Content
1	**Computer Networks**	Home Network Setup and Configuration, Wi-Fi Security and Router Configuration, Network Diagnostic Tools and Commands (Page No. 11-13) Network Load Balancing (Page No. 14) Usability and Security Tradeoffs (Page No. 16)
2	**Computational Thinking and Algorithms**	Applying Predicate Logic to real-world Problems (Page No. 28-29) Logic-Based Reasoning and inference (Page No. 29) **Exercise:** Long Question (Q. 8) (Page 32)
3	**Object-Oriented Programming using Python**	Polymorphism (Page No. 39-41) **Exercise:** MCQs (Q. 5, 7) (Page No. 43) Short Questions (9, 10) Long Questions (5, 7) (Page No. 44)
4	**Development of Graphical User Interface (GUI)**	Graphical User Interface development with Tkinter (Page 45-52) **Exercise:** MCQs (Q. 1-9) (Page No. 58) Short Questions (Q. 1-8) Long Questions (1-7) (Page 59)
5	**Code Testing and Debugging**	Complete Unit is excluded.

6	**Data and Analytics**	Validation and Model Improvement (Page No. 82-83), Predictive Modeling and Causality (Page No. 83-84), Machine Learning Tools and Platforms (Page No. 84-85) **Exercise:** MCQ. (Q 10) (Page No. 87) Short Questions (Q. 9, 10) Long Questions (Q. 7, 8) (Page No. 88)
7	**Hypothesis Testing**	Data Visualization for Hypothesis Testing (Page No. 96-99) **Exercise:** MCQs. (Q 8-10) (Page No. 101) Short Questions (Q. 8-10) Long Questions (Q.5 – 8) (Page No. 88)
8	**Applications of Computer Science**	Ethical and Cultural Implications of AI Systems (Page No. 108-111) **Exercise:** MCQs (Q 5, 6) (Page No. 116) Short Questions (Q. 5, 6), Long Question (Q 7) (Page No. 117)
9	**Cybersecurity and Safe Digital Collaboration**	Digital Collaboration and Equity in Computing (Page No. 124-127) Ethical, Legal and Environmental Impacts of Computing (Page No. 131-133) **Exercise:** MCQs (Q 7-10) (Page No. 135) Short Questions (Q. 8, 9) Long Questions (Q. 7, 8) (Page No. 136)

Excluded Practicals for
Computer Science and Entrepreneurship for Grade-11

List of Practicals
• Create Python programs that handle exceptions effectively. • Write and execute Python programs that involve file handling for reading and writing data. • Build Python programs that invoke functions, both with and without loops, in a modular approach. • Develop the ability to locate and correct simple code errors, such as syntax issues, through systematic examination. • Build basic statistical models, such as linear regression, for solving real-world problems. • Apply statistical models to solve real-world problems in areas like business, science, healthcare, or social issues. • Work collaboratively on modeling projects, sharing ideas, and insights to build effective models. • Read and interpret boxplots, with an emphasis on understanding sample sizes and their relationship to population parameters. • Use data analysis tools like RStudio or Python to re-randomize data for experimentation purposes. • Effectively communicate the applications and implications of cloud computing and blockchain, both orally and in written form.

Excluded Practicals for
Computer Science and Entrepreneurship for Grade-12

List of Practicals

• Set up basic networks, configure network devices, and establish network connections.
• Proficiency in using diagnostic tools and commands to identify and resolve network issues.
• Implement basic security measures
• Implement inheritance hierarchies to represent relationships between objects.
• Implement polymorphism through method overriding and abstract classes or interfaces.
• Design interactive user interfaces using Tkinter components
• Understand the event-driven nature of GUI applications and implementing event handlers.
• Handle user events, such as button clicks and mouse interactions, within Tkinter applications.
• Create responsive and visually appealing GUIs that enhance the user experience.
• Organize GUI elements in a structured and user-friendly layout
• Troubleshoot and resolve GUI-related issues.
• Develop and execute comprehensive unit tests, analyze test results, and refine code based on testing outcomes.
• Evaluate machine learning models using various metrics, including error, accuracy, precision, recall, and F-measure.
  o Assess machine learning models with validation datasets to ensure their robustness.
• Implement train-test splitting of data to assess model performance.
  o Explain the meaning of machine learning model results in real-world scenarios.
• Apply feature engineering techniques in machine learning model building.
  o Interpret the results of machine learning model outputs, including identifying features with the most impact.
• Evaluate models with appropriate metrics related to the algorithm type and improve models using hyperparameter tuning.
• Interpret the visuals to support and illustrate conclusions drawn from hypothesis tests.
  o Use data analysis and statistical software tools (e.g., Excel, R, Python) to create data visuals.
  o Create graphs, bar charts, histograms, or other relevant data visualizations to represent data and findings.