

**FEDERAL BOARD OF INTERMEDIATE AND SECONDARY EDUCATION**  
**H-8/4, ISLAMABAD**

NO.3-21/FBISE/RES/CC/265

14 October 2020

**NOTIFICATION**

In pursuance of Ministry of Federal Education and Professional Training Notification No.F.4(5)/2015-NCC/RE dated 13 October 2020 reviewed reduced syllabus for the subjects already notified vide letter No.3-21/FBISE/RES/CC/178 dated 16-09-2020 and syllabus for remaining subjects of Humanities Group for SSC Annual Examination 2021 is also being uploaded on the FBISE's website [www.fbise.edu.pk](http://www.fbise.edu.pk). However, there will be no change in the format and style of question papers.



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# **Reduced Syllabus**

## **SSC-I and SSC-II**

### **Examination 2021 under FBISE**



**National Curriculum Council**  
Ministry of Federal Education and  
Professional Training

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**منتخب نصاب اُردو لازمی**  
شامل نصاب عنوانات برائے جماعت نہم  
(مشق مکمل)

1. ہجرت نبوی ﷺ
2. کابلی
3. آرام و سکون
4. امتحان
5. قدرایاز
6. □مد (نظم)
7. نعت (نظم)
8. پیوستہ رہ شجر سے امید بہار رکھ
9. غزل، میر تقی میر
10. غزل ، اسد اللہ خان غائب
11. قواعد و انشاء (خطوط نویسی، مکالمہ نویسی، روداد نویسی)  
بمطابق کتاب اُردو قواعد و انشاء نہم و دہم پنجاب ٹیکسٹ بک بورڈ لاہور۔

**نوٹ : مصنفین اور شعرا کے تعارف میں سے کوئی سوال نہیں بنایا جائے گا۔**

**REVIEWED SYLLABUS  
ENGLISH SSC-I**

<b>Unit #</b>	<b>Title</b>	<b>Contents /Exercises to be covered</b>
1	The Saviour of Mankind	<ul style="list-style-type: none"> <li>• Reading Comprehension (Exercise-B)</li> <li>• Grammar (Adjective, Conditional Type-I) Exercise A, B, C &amp;D.</li> </ul> Homework: Vocabulary & Glossary (Exercise –A & B)
2	Patriotism	<ul style="list-style-type: none"> <li>• Reading Comprehension (Exercise-A)</li> <li>• Grammar Modal Verbs (Exercise –A &amp; B)</li> <li>• Punctuation Exercise -C</li> </ul> Homework: Vocabulary & Glossary (Exercise –A), Writing Skills (Exercise-E)
3	Media and its Impact	Grammar – Adjectives – Nouns- Adverbs – Pronouns Exercises – A, B, C, E, G Vocabulary Exercise B
4	HazratAsma (RA)	<ul style="list-style-type: none"> <li>• Reading Comprehension (Exercise-C)</li> <li>• Grammar (Abstract Noun, Exercise-B&amp; preposition of time, Exercise-E &amp; F)</li> <li>• Punctuation (Exercise –G)</li> </ul> Homework: Glossary
5	Daffodils	<ul style="list-style-type: none"> <li>• Reading Comprehension (Exercise-A)</li> <li>• Theme /Central idea of the Poem</li> <li>• Figures of Speech (simile, metaphor, personification &amp; imagery) Exercise-A, B, C</li> <li>• Grammar (Collective Noun, exercise-A &amp; Conjunctions, Exercise-D)</li> </ul> Homework: Paraphrasing of poem
6	The Quaid’s Vision and Pakistan	<ul style="list-style-type: none"> <li>• Vocabulary &amp; Glossary (Exercise A, B, C, D)</li> <li>• Reading Comprehension (Exercise-A)</li> <li>• Grammar (Adverb, Infinitive, Gerund &amp; Conditional III) Exercises A, B, C, D&amp; E</li> </ul>
7	Sultan Ahmed Mosque	<ul style="list-style-type: none"> <li>• Vocabulary (Exercise A, B, C &amp; D)</li> <li>• Reading Comprehension (Exercise-A)</li> <li>• Grammar: Position of Adverbs, Degrees of Comparison (Exercise A, B &amp; C)</li> <li>• Use of “Since &amp; For” (Exercise D) page-80</li> </ul>
8	Stopping by Woods on a Snowy Evening (poem)	Grammar – Adjective phrases – Adverb phrases Exercises – A, B
10	Drug Addiction	Grammar – Relatives pronouns – Adjective clauses Exercises – A, C, D

11	Noise in the Environment	Grammar – Transition devices – Adverb clauses Independent and dependent clause – Subordinating conjunctions Exercises – B , C, D, F, G
12	Three Days to See	<ul style="list-style-type: none"> <li>• Vocabulary (Exercise A, B &amp;C)</li> <li>• Reading Comprehension (Exercise-A)</li> <li>• Grammar (Conditional Type-II, Kind of sentences) Exercise A, B, C</li> <li>• Identification Simple, Compound &amp; Complex sentences (Exercise-D &amp; E)</li> <li>• Homework: Writing Skills Exercise-A</li> </ul>

## GRAMMAR & COMPOSITION

- i. All parts of speech (types & subtypes)
- ii. Types of phrases, clauses & sentences(Identification only)
- iii. Conditional Sentences
- iv. Verbals (Gerund, Participles & Infinitive)
- v. Active Voice & Passive Voice (Exercises page# 169-170 from English Grammar and Composition 9-10, PTB, Lahore, 1<sup>st</sup> Edition March, 2020)
- vi. Tenses, Translation Exercises, Present Tenses (page 74 to 87), Past Tenses (pages-95 to 108) Future Tenses (Pages117-131), & Correction Exercises pages # 164-168(from English Grammar and Composition, PTB, Lahore,1<sup>st</sup> Edition March, 2020)
- vii. Informal Letters (from English Grammar and Composition 9-10, PTB, Lahore,1<sup>st</sup> Edition March, 2020)
  - a. Write a letter to your brother about the importance of science subjects
  - b. Write a letter to your father asking him about the health of your mother.
  - c. Write a letter to your friend condoling the death of his mother.
  - d. Write a letter to your sister congratulating her on her success in the exam.
- viii. Punctuation exercises from English Text Book (class 9<sup>th</sup>), PTB, Lahore (Unit # 2, page-19 Exercise-(c)& Unit # 4 Page # 43 Exercise-(g).
- ix. Paragraph writing (a. A Visit to a Museum, b. Fashion, c. An Industrial Exhibition, d. How to keep our town clean?)(English Grammar and Composition 9-10, PTB, Lahore,1<sup>st</sup> Edition March, 2020)
- x. Dialogue Writing (a. between teacher and student, b. between two students regarding salat, c. between a tailor and a customer)(English Grammar and Composition 9-10, PTB, Lahore,1<sup>st</sup> Edition March, 2020)

### NOTE:

1. Unit No. 3, 8,9, 10 &11 are entirely excluded.
2. All Review Exercises (I, II & III) in the English Text Book are entirely excluded.
3. The overall pattern and weightage of annual paper will remain the same, however, both objective and subjective paper will be from the reduced /selected contents.
4. All grammar based content is supposed to be taken from the prescribed /recommended grammar book (English Grammar and Composition, PTB, Lahore,1<sup>st</sup> Edition March, 2020)

**REVIEWED SYLLABUS  
MATHEMATICS SSC-I  
(Science Group)**

<b>Unit 1</b>	<b>Matrices and Determinants</b>
Exercise 1.1	Q1; Q2; Q3
Exercise 1.2	Q1; Q2; Q3; Q5; Q6
Exercise 1.3	Q1; Q2; Q5(i, v, vi, ix, x); Q6; Q7; Q8(i, ii, iii, iv)
Exercise 1.4	Q1; Q2; Q3; Q5; Q6
Exercise 1.5	Q1(i, ii); Q2(i, ii); Q3(iii, iv); Q4
Exercise 1.6	Q1(i, iii, v, vii); Q2; Q4
Review Ex 1	Q1

<b>Unit 2</b>	<b>Real and Complex Numbers</b>
Exercise 2.1	Q3; Q4(i, ii, iii); Q6(i, ii)
Exercise 2.2	Q1; Q3
Exercise 2.3	Q1(i, ii); Q3(i, ii)
Exercise 2.4	Q1(i, iv); Q2; Q3(i, ii)
Exercise 2.5	Q1(i, ii, iv); Q2(i, ii, iii); Q3(iv, v); Q4
Exercise 2.6	Q1; Q2(ii, iv); Q3(ii, iv); Q4(i, iv, v); Q5(ii, iii); Q6(i, iii, iv, v); Q7(i, ii)
Review Ex 2	Q1; Q2; Q5; Q7

<b>Unit 3</b>	<b>Logarithms</b>
Exercise 3.1	Q1(i, ii, iv, vi); Q2(iii, iv)
Exercise 3.2	Q1(i, iii); Q3; Q4(ii, iv); Q5
Exercise 3.3	Q1(iv, v, vi); Q2; Q3(iii, iv); Q4
Exercise 3.4	Q1(i, iii, iv, vi); Q2; Q5
Review Ex 3	Q1; Q2

<b>Unit 4</b>	<b>Algebraic Expressions and Algebraic Formulas</b>
Exercise 4.1	Q1; Q2; Q3(iii, iv, v, vii, viii); Q5(ii, iv, vi); Q6(ii, iii, iv, v)
Exercise 4.2	Q1; Q2; Q4; Q6; Q8; Q10; Q13; Q15(i, ii, iii)
Exercise 4.3	Q1(iii, iv); Q2(ii, iii); Q3(i, ii); Q4(iii, v)
Exercise 4.4	Q1(iii, iv, vii); Q2(i, ii); Q3(i); Q4(i, ii); Q5(ii)
Review Ex 4	Q1; Q2

<b>Unit 5</b>	<b>Factorization</b>
Exercise 5.1	Q1(i, v, vi); Q2(iii, iv); Q3(i, iii); Q4(ii, iv); Q5(i, ii, iii)
Exercise 5.2	Q1(i, iv, v); Q2(i, iii); Q3(ii, v, viii); Q4(i, iii, v); Q5(i, ii); Q6(i, ii)
Exercise 5.3	Q1(i, iii); Q2(i); Q3(i); Q5; Q7; Q9
Review Ex 5	Q1; Q2

<b>Unit 6</b>	<b>Algebraic Manipulation</b>
Exercise 6.1	Q1; Q2(i, ii, iii); Q3(i, iii); Q4; Q5(ii, iii); Q6; Q8; Q9
Exercise 6.2	Q1; Q2; Q4; Q6; Q9; Q11; Q13
Exercise 6.3	Q1(i, iv, vi, vii); Q2(i, iv, v); Q3(i); Q4(i)
Review Ex 6	Q1; Q8

<b>Unit 7</b>	<b>Linear Equations and Inequalities</b>
Exercise 7.1	Q1(i, iii, v, vii, ix); Q2(i, ii, v, viii)
Exercise 7.2	Q1; Q2(ii, iv, v, vii)
Exercise 7.3	Q1(i, ii, iv, vii); Q2(i, ii, iii, viii)
Review Ex 7	Q1; Q2

<b>Unit 8</b>	<b>Linear Graphs and their Applications</b>
Exercise 8.1	Q1; Q2(i, ii, iii, iv, v, vi, vii, xiii, xiv); Q5
Exercise 8.2	Q3(a, b, c); Q4
Exercise 8.3	Q1; Q2; Q3



<b>Review Ex 8</b>	<b>Q1; Q2</b>
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<b>Unit 9</b>	<b>Introduction to Coordinate Geometry</b>
<b>Exercise 9.1</b>	<b>Q1(a, d, e); Q2(i, ii)</b>
<b>Exercise 9.2</b>	<b>Q1; Q2; Q3; Q4; Q5; Q6; Q9</b>
<b>Exercise 9.3</b>	<b>Q1(a, c, f); Q2; Q3; Q5</b>
<b>Review Ex 9</b>	<b>Q1; Q2</b>

<b>Unit 10</b>	<b>Congruent Triangles</b>
<b>Exercise 10.1</b>	<b>Q1</b>
<b>Exercise 10.3</b>	<b>Q1</b>
<b>Exercise 10.4</b>	<b>Q1; Q2</b>
<b>Theorems</b>	<b>10.1.1; 10.1.2</b>
<b>Review Ex 10</b>	<b>Q1; Q3; Q4; Q5</b>

<b>Unit 11</b>	<b>Parallelograms and Triangles</b>
<b>Exercise 11.1</b>	<b>Q1; Q2</b>
<b>Exercise 11.4</b>	<b>Q1</b>
<b>Theorems</b>	<b>11.1.2; 11.1.3; 11.1.5</b>
<b>Review Ex 11</b>	<b>Q1; Q2; Q3; Q4; Q5</b>

<b>Unit 12</b>	<b>Line Bisectors and Angle Bisectors</b>
<b>Theorems</b>	<b>12.1.1; 12.1.3; 12.1.4</b>
<b>Review Ex 12</b>	<b>Q1; Q2; Q4; Q5; Q6</b>

<b>Unit 13</b>	<b>Sides and Angles of a Triangle</b>
<b>Exercise 13.1</b>	<b>Q1; Q3</b>
<b>Exercise 13.2</b>	<b>Q1; Q2; Q3</b>
<b>Theorems</b>	<b>13.1.1; 13.1.3; 13.1.4</b>

<b>Review Ex 13</b>	<b>Q1</b>
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<b>Unit 14</b>	<b>Ratio and Proportion</b>
<b>Exercise 14.1</b>	<b>Q1</b>
<b>Exercise 14.2</b>	<b>Q1; Q2</b>
<b>Theorems</b>	<b>14.1.3</b>
<b>Review Ex 14</b>	<b>Q1; Q4; Q5; Q6</b>

<b>Unit 15</b>	<b>Pythagoras Theorem</b>
<b>Exercise 15</b>	<b>Q1; Q3; Q4; Q6; Q7; Q8</b>
<b>Review Ex 15</b>	<b>Q1: Q2</b>
<b>Theorems</b>	<b>15.1.1</b>

<b>Unit 16</b>	<b>Theorems Related with Area</b>
<b>Exercise 16.1</b>	<b>Q2</b>
<b>Theorems</b>	<b>16.1.1</b>
<b>Review Ex 16</b>	<b>Q1; Q2</b>

<b>Unit 17</b>	<b>Practical Geometry-Triangles</b>
<b>Exercise 17.1</b>	<b>Q1(i, iv, v); Q2(i, ii); Q3; Q4(i, ii)</b>
<b>Exercise 17.2</b>	<b>Q1(i, iii); Q2(i, iii); Q3(i, iii); Q4(i, ii)</b>
<b>Exercise 17.3</b>	<b>Q1; Q3</b>
<b>Exercise 17.4</b>	<b>Q1; Q3</b>
<b>Review Ex 17</b>	<b>Q1; Q2</b>

**NOTE:**

- All Class work will be given for revision as H.W.
- The MCQ's Portion of the annual paper will be taken from MCQ's exercise at the end of the chapters: so MCQ's will be done in class by class teacher.

**REVIEWED SYLLABUS  
GENERAL MATHEMATICS SSC-I**

<b>Unit 1</b>	<b>Percentage, Ratio and Proportion</b>
Exercise 1.1	Q1(i, xi); Q2(ii, x); Q3(i, vii, ix); Q4(ii, viii)
Exercise 1.2	Q1; Q3; Q5; Q6; Q7
Exercise 1.3	Q1(iii, vi); Q2(i, iii, vi); Q3
Exercise 1.4	Q1; Q5; Q6; Q7; Q10
Exercise 1.5	Q1; Q3; Q5; Q7; Q9; Q11
Review Ex 1	Q1; Q2

<b>Unit 2</b>	<b>Zakat, Ushr and Inheritance</b>
Exercise 2.1	Q1; Q3; Q5; Q6; Q7; Q9
Review Ex 2	Q1; Q2

<b>Unit 3</b>	<b>Business Mathematics</b>
Exercise 3.1	Q1(i, iv); Q2; Q3(i, ii); Q5; Q6
Exercise 3.2	Q1(ii); Q2(i); Q3; Q4; Q8
Exercise 3.3	Q1; Q2; Q5
Review Ex 3	Q1; Q2

<b>Unit 4</b>	<b>Financial Mathematics</b>
Exercise 4.2	Q2; Q3; Q6; Q7
Exercise 4.3	Q1; Q2; Q4; Q5

<b>Unit 5</b>	<b>Consumer Mathematics</b>
Exercise 5.1	Q1; Q4; Q5; Q7
Exercise 5.2	Q1(i, iii, v); Q2(i, ii); Q3(i, ii, v)
Exercise 5.3	Q2; Q3; Q4; Q5
Review Ex 5	Q1; Q2

<b>Unit 6</b>	<b>Exponents and Logarithms</b>
Exercise 6.1	Q1(ii, v, vi); Q2(i, ii, iii); Q3(i, iii, vi); Q4(i, iii, vii); Q5(ii, v, ix, xi, xii)
Exercise 6.2	Q1(i, iv); Q2; Q4; Q6; Q8; Q12; Q15; Q16; Q18; Q20; Q23; Q24; Q27(ii, iv, v); Q28(i, v); Q29(i, iii, vii, viii)
Exercise 6.3	Q1; Q2; Q5; Q6; Q9; Q11; Q13; Q14
Exercise 6.4	Q4
Exercise 6.5	Q1; Q2(i, iii, v); Q3(ii); Q4(i, iii); Q5(i, iii, iv); Q6; Q8(i, iii, iv); Q9
Review Ex 6	Q1; Q2

<b>Unit 7</b>	<b>Arithmetic and Geometric Sequences</b>
Exercise 7.1	Q1(i, vii, ix); Q2(i, iv, v); Q3(i, iii, v)
Exercise 7.2	Q1(iv, v); Q2(i, iii, iv); Q3; Q4; Q7; Q9
Exercise 7.3	Q1(i, ii); Q2; Q4; Q7
Exercise 7.4	Q1; Q5(i); Q6; Q9; Q10; Q12
Exercise 7.5	Q1(i); Q4; Q5; Q7; Q9
Review Ex 7	Q1; Q2

<b>Unit 8</b>	<b>Sets and Functions</b>
Exercise 8.1	Q1(i, iii); Q3; Q4; Q6
Exercise 8.2	Q1; Q2; Q4; Q5; Q6; Q8
Review Ex 8	Q1; Q2

<b>Unit 9</b>	<b>Linear Graphs</b>
Exercise 9.1	Q1; Q3(i, ii)
Exercise 9.2	Q1; Q6; Q7; Q9; Q11(i)
Exercise 9.3	Q1; Q2
Review Ex 9	Q1; Q2; Q3

<b>Unit 10</b>	<b>Basic Statistics</b>
Exercise 10.1	Q1; Q2

<b>Exercise 10.2</b>	<b>Q1(i, iii)</b>
<b>Exercise 10.3</b>	<b>Q1(i, iii)</b>
<b>Exercise 10.4</b>	<b>Q1(i, iii)</b>
<b>Review Ex 10</b>	<b>Q1; Q2</b>

**NOTE:**

- MCQ's portions of annual paper will be taken from objective exercises at the end of the chapter and objective questions will be done in class by the teacher.

## اسلامیات (لازمی) جماعت نہم

جزء الاول: من ہدیٰ قرآن:

سورة الانفال آیات 1-48 (بامحاورہ ترجمہ، کلمات و تراکیب بشمول

تمارین مکمل)

جزء ثانی: من ہدیٰ حدیث:

1- ترجمہ دیث نمبر 1-10 2- تشریح و عملہ زندگی سے

تعلق دیث نمبر 1-5

جزء ثانی: موضوعاتی مطالعہ:

1. قرآن مجید (تعارف، فہمات اور فضائل)

2. اللہ تعالیٰ اور اس کے رسول ﷺ حضرت محمد خاتم النبیین ﷺ کی محبت اور

اطاعت

4. زکوٰۃ (فرضیت اور مصارف)

نوٹ: مذکورہ بالا تینوں موضوعات کے تمام مشقی سوالات شامل ہیں۔

# PAKISTAN STUDIES SSC-I

## CHAPTER 1 IDEOLOGICAL BASIS OF PAKISTAN

TOPICS: Basis of the Ideology of Pakistan, Two Nation Theory: Origins, Evolution and explication, The ideology of Pakistan and Quaid-i-Azam

Long questions: 5-6-8

## CHAPTER 2 MAKING OF PAKISTAN

Topics: Pakistan Resolution 1940, Background of Pakistan resolution, Quaid-e-Azam presidential address, text of the resolution, reaction to the resolution, Jinnah-Gandhi talks 1944, Cabinet mission plan 1946, talks with different political leaders, proposal of cabinet mission, reaction of political parties to cabinet mission. Interim government 1946-47, 3<sup>rd</sup> June 1947 plan, Quaid-e-Azam, Role in making of Pakistan, services rendered by Quaid-e-Azam.

Long question 5-6-8-10

## CHAPTER 3 LAND AND ENVIRONMENT

Topics: Location of Pakistan, regions of Pakistan with reference to temperature, climatic regions of Pakistan, plain region, major environmental hazards and their remedies, environmental pollution and its types, threats to water, soil, vegetation and wildlife.

Long questions: 5-8-11-12-14-15-16

## CHAPTER 4 HISTORY OF PAKISTAN (Part 1)

Topics: Early problems of Pakistan, Quaid-i-Azam, role as first governor general of Pakistan, Pakistan objective resolution 1949, Muslim family laws ordinance 1961, Indo-Pak war 1965, events of war, naval war, ceasefire, effects of war, unity and solidarity among Pakistani people. Economic development: the second five years plan (1960-65), the third five years plan (1965-70). Separation of East Pakistan and emergence of Bangladesh, causes of separation of East Pakistan.

Long question: 5-6-8-10-11

### NOTE:

- All MCQs of all chapters given in exercise are included in syllabus

# PHYSICS SSC-I

## NOTE:

- All mini exercises, quick quiz and side information are excluded.
- Only topic based related MCQs, Short and Long Questions and numerical are included.

## Unit 1 Physical Quantities and Measurements

- 1.2 Physical quantities
- 1.3 International system of units
- 1.4 Prefixes
- 1.5 Scientific Notation
- 1.6 Measuring Instruments (Vernier callipers, Screw gauge, Stop Watch only)  
(Tables: 1.2, 1.3, 1.4 included)

## Unit 2 Kinematics

All theory topics 2.1- 2.7 and examples 2.1-2.7, 2.10 are included.

## Unit 3 Dynamics

- 3.1: Force, Inertia and Momentum
- 3.2: Newton's Laws of Motion (1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup>, mass and weight, Force and Momentum, Law of Conservation of momentum only)
- 3.3: Friction (Rolling Friction, Advantages / disadvantages of Friction, methods to reduce friction only)
- 3.4: Uniform circular motion (Centripetal force and centrifugal force only)

## Unit 4 Turning Effects of Forces

All Theory Topics 4.1- 4.8 are included.

## Unit 5 Gravitation

- 5.1: The force of gravitation
- 5.2: Mass of Earth
- 5.3: Variation of g with Altitude

## Unit 6 WORK AND ENERGY

Theory Topics (6.1-6.4), 6.8- efficiency, 6.9- power

## Unit 7 Properties of Matter

Theory Topics:

- 7.2 Density,
- 7.3, Pressure,
- 7.5, Pressure in Liquid {Pascal's Law, Application of Pascal's Law (Hydraulic Press Only)}
- 7.6 Archimede's Principle,
- 7.7 Principle of Floatation
- 7.8 Elasticity, 7.9 Hook's Law

## Unit8 Thermal Properties

- 8.3, Specific heat capacity, importance of large specific Heat capacity of water, heat capacity
- 8.8: Thermal expansion (linear and volume expansion) consequences and applications of thermal expansion only)  
(Table: 8.1, 8.3, 8.4 included)



## REVIEWED SYLLABUS CHEMISTRY SSC-I

**NOTE:** Side Boxes like (Society, Technology and Science, Do you know, Science, Tit Bits are excluded from the syllabus, it is obvious that the topic which are excluded questions relevant in the exercises are omitted.

**Chapter: 1    Fundamentals of Chemistry**

Basic definitions, Matter, substance, Mixture (types), Elements, compound, Atomic number, Mass number, Relative mass unit, Empirical formula and Molecular formula, Types of molecular formula, Molecular mass calculation, concept of mole, Avogadro's number, chemical calculation, mole-mass calculation (1.5), Mole-particles calculation Example (1.6, 1.7).

**Note:** Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.

**Chapter: 2    Structure of Atom**

Rutherford atomic model (experiment, Defects), Bohr's atomic theory, electronic configuration

**Note:** Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.

**Chapter: 3    Periodic Table and Periodicity of properties**

Periods and groups of element, s and p blocks in periodic table, Periodicity of properties, Shielding effect and trends, atomic size and trends, Ionization energy and trends, Electron affinity and trends, electronegativity and trends.

**Note:** Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.

**Chapter: 4    Structure of molecule**

Chemical Bond, Types of bond, ionic bond, covalent bond, intermolecular forces.

**Note:** Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.

**Chapter: 5    Physical state of Matter**

Boyle's Law, Charles Law, Liquid state, evaporation, vapor pressure, boiling point, effect of external pressure on boiling point, sublimation, types of solids (Amorphous and crystalline).

**Note:** Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.

**Chapter: 6    Solution**

Saturated, Unsaturated, Super Saturated Solution, Concentration Units (Percentage, Molarity, Solubility, Effect of Temperature on Solubility, Comparison of Solution, Suspension and Colloids (Only table is included).

**Note:** Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.

**Chapter: 7 Electrochemistry**

Oxidation, Reduction, oxidation reduction in term of loss or gain of electrons, oxidation state and rules for assigning oxidation state and oxidation number, oxidizing and reducing agent, Electrochemical cell, nature of electrochemical process, concept of electrolyte, electrolytic cell, use of electrolytic cell, galvanic cell (Daniel cell), Reaction in Daniel cell, Zinc electroplating, chromium electroplating, corrosion and its prevention, rusting of iron, corrosion of Aluminum, cathode protection.

**Note: Related self-assessments, review exercise and think tank questions of abovementioned topics are included. Side boxes and Society, science and technology are not included.**

**Chapter: 8 Chemical Reactivity**

Metal, electropositive character, comparison of reactivity of Alkali and alkaline Earth metals, inertness of Noble metals, importance of silver, Gold, Platinum, Non-metals, Electro negativity character, comparison of reactivity of halogen.

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

## BIOLOGY SSC-I

**NOTE:**

1. Only topic based relevant MCQs, Short and Long Questions are included.
2. All information in side boxes is excluded.

Ch. #	Chapter Name	Topics Included
1	Introduction to Biology	Introduction to Biology (2-3) Branches of Biology The Levels Of Organization (7-13)
2	Solving a Biological Problem	Biological Method (20-23) Theory, Law and Principle (26-27) Data Organization And Data Analysis (27-28)
3	Biodiversity	Biodiversity (31) Importance of Biodiversity (32) Classification- Aims and Principles (33-35) Aims of classification Basis of classification Taxonomic hierarchy Two kingdom classification system (36-38) Three kingdom classification system Five kingdom classification system The five kingdoms Binomial Nomenclature (39-40) Deforestation and Overhunting (43-44) Endangered Species In Pakistan (45-46)
4	Cells and Tissues	Cellular Structures and Function (57-65) Difference Between Eukaryotic and Prokaryotic Cells (66) Passage of Molecules into and Out of Cells Diffusion (69) Osmosis (70) (Water Balance Problems, Osmosis and Guard Cells, Application of Knowledge About Semi Permeable Membranes Excluded) Active Transport (73) Animal Tissues (74) Epithelial Tissues (Types Excluded) (75) Connective Tissues (75) Muscle Tissues (76-77) Nervous Tissue (77) Plant Tissues (78-82) Simple Tissues Meristematic Tissues (Types Excluded) Permanent Tissues (Names of Types Only) Compound Tissues (Names of Types Only)
5	Cell Cycle	Cell Cycle (87-88) Mitosis and Its Phases (89-91) Meiosis and Its Phases (95-100) Comparison Between Mitosis and Meiosis (101)
6	Enzymes	Enzyme Introduction (107-108) Characteristics of Enzymes (108-109) Factors Affecting Rate of Enzyme Action (109-111) Mechanism Of Enzyme Action (111-112)
7	Bioenergetics	Oxidation and Reduction Reactions (118) ATP- The Cell's Energy Currency (119-120)

		Photosynthesis (120) Mechanism of Photosynthesis (121-122) Respiration (130) Aerobic and Anaerobic Respiration (130-131) (Importance of Fermentation excluded) Mechanism of Respiration (132)
8	Nutrition	Components of Human Food (143) Minerals (Table 8.2 excluded) (144) Role of Calcium and Iron (145) Effects of Water and Dietary Fiber (150) Digestion In Humans (157-165) (Disorders Excluded)
9	Transport	Transpiration (173) (Opening and Closing of Stomata Excluded, Factors Affecting the Rate of Transpiration Excluded) Significance of Transpiration (176) Transport in Human (184) Blood (185-187) (Table 9.2 Excluded) Human Heart (192-193) Pulmonary and systemic Circulation (193) Heartbeat (194-195) Heart Rate and Pulse Rate (195-196) Blood Vessels (197-198) (Table 9.1 Included)

# COMPUTER SCIENCE SSC-I

## List of Topics for Theory

- Unit 01 Fundamentals of Computer Science (**complete chapter**)
- Unit 02 Fundamentals of Operating System (**reduced**)
  - 2.1 Introduction (**Included**)
  - 2.2 Operating System(**Included**)
- **Unit 03 Skipped: whole chapter in theory, topic will be covered in practicals**
- Unit 04 Data Communication (**complete chapter**)
- Unit 05 Computer Network (**complete chapter**)
- Unit 06 Computer Security and Ethics (**complete chapter**)

## List of Practical(9<sup>th</sup>)

### **Microsoft word**

- Creating a new Document, Saving a Document, Opening a Document, Printing a Document.
- Inserting and editing Text, Selecting Text, Copying and moving Text, Deleting Text, changing Font type, Size and Changing Font Styles and Effects.
- Inserting Symbols and Equations.
- Paragraph Formatting.
- Page Formatting, inserting Section Break, Header and Footer, Inserting Page Number and Changing Page Margins.
- Inserting and Positioning Pictures.
- Inserting WordArt.
- Inserting and Formatting Table
- Using Hyperlink

### **Microsoft Excel**

- Copying and Moving cell contents, Use of Fill-Handle to fill cells
- Cell Formatting, Working with cell addressing, Relative Cell Addressing, Absolute Cell Addressing
- Working with Functions
- Working with Formulas
- Creating Charts
- Manipulating and Formatting data
- Conditional Formatting of data
- Sorting of Data

### **Inpage**

- Copying, Moving and Deleting Text
- Changing Language
- Formatting Document

**NOTE:** In SSC-I windows practical not included in model paper so may be excluded.

# GENERAL SCIENCE SSC-I

## Chapter 1 Introduction and role of Science

- Brief contribution of Muslim scientists
- Contribution of Pakistani scientists  
1-Dr Abdus Salam 2-Dr Abdul Qadeer Khan
- Branches of Science
- Role of science and Technology

## Chapter 2 Our Life and Chemistry

- Three basic elements(Respiration,Photosynthesis)
- Properties of water as solvent
- Composition of Air, Role and Uses of air gases
- Importance and function of elements in daily life(Iodine,Chlorine,Iron)

## Chapter 5 Microorganism and Diseases

- Diseases and their causes
- Bacterial diseases
- Viral diseases
- Cancer, Malaria
- Spreading of Germs
- Protection of germs and diseases
- Smoking, Abad Habit

## Chapter 7 Energy

- Energy, Types of energy
- Inter conversion of energy
- Renewable energy resources

## Chapter 9 Basic Electronics

- Semiconductor
- Semi conductor diode
- Radio waves
- Radio
- Computer
- Micro processor

Justification: With the removal of Exercise Question Numbers the rest of the syllabus is OK.  
Any Question related to given topics can be included in exams.

**REDUCED SYLLABUS**  
**ETHICS (For non-muslims)**  
**For Class-IX (50 Marks)**

1. **INTRODUCTION TO RELIGIONS**
  - The psychological and personal value of religion
  - The social and ethical value of religion
  
3. **ETHICS AND VALUES**
  - Primacy of God
  - Systems and places of worship and their collective impact on peoples' behavior with reference to main religions (Hinduism, Buddhism, Zoroastrianism, Christianity, Islam, Sikhism . . . )
  
4. **ETIQUETTES**
  - Places of worship
  
5. **PERSONALITIES**
  - Imam Ghazali
  - Florence Nightingale

## مختصر سلیبس اسلامیات اختیاریہ جماعت نہم

□ قرآن

باب اول:

فضیلت قرآن، آیات توحید و صفات باری تعالیٰ، آیات رسالت مآب تا آیات ایمانیات

### القرآن

#### بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

- (2) هُوَ الَّذِي ذَلَّلَ الْهَبَالَ هُوَ عَلِمَ الْعَبِيَّو الشَّهَادَةَ هُوَ الرَّحْمٰنُ الرَّحِیْمُ
- (3) هُوَ الَّذِي ذَلَّلَ الْهَبَالَ هُوَ الْمَلِكُ الْقُدُّوسُ السَّلَامُ الْمُؤْمِنُ الْمُهِمُّ الْعَزِيزُ الْجَبَّارُ الْمُتَكَبِّرُ سُبْحٰنَ الَّذِي لَا يَشْرُكُ هُوَ الَّذِي خَلَقَ الْاَبْرَارَ بِالْمُصَوِّرِ لَهَا اَسْمَانًا الْحُسْنٰى طَسَّحٰهُمَا فِي السَّمٰوٰتِ وَالْاَرْضِ هُوَ الْعَزِيزُ الْحَكِیْمُ (الحشر: 24 تا 22)
- (4) وَاذْ يَرْفَعُ اِيْرَهُمُ الْقَوَاعِدَ مِنَ الْبَيْتِ وَ اِسْمَعِیْلُ سے . . . . . اِنَّكَ اَنْتَ الْعَزِيزُ الْحَكِیْمُ تك (البقره: 127 تا 129)
- (7) هُوَ الَّذِي اَرْسَلَ رَسُوْلَهٗ بِالْهُدٰى وَ دِیْنِ الْحَقِّ سے . . . . . مِنْهُمْ مَغْفِرَةٌ وَ اَجْرًا عَظِیْمًا تك (الفتح: 28 تا 29)
- (8) مَا كَانَ مُحَمَّدٌ اَبًا سے . . . . . بِكُلِّ شَيْءٍ عَلِیْمًا تك (الاحزاب: 40)
- (9) يٰۤاَيُّهَا النَّبِیُّ سے . . . . . سِرَاجًا مُنِیْرًا تك (الاحزاب: 45)

الاحزاب (آئہ □ ادیث)

باب دوم:

#### بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

- (1) رَأْسُ الْحِكْمَةِ مَخَافَةُ اللَّهِ
- (2) اَوَّلُ مَا يُحَاسَبُ بِهِ الْعَبْدُ الصَّلٰوةُ
- (3) اَلصَّوْمُ لِيْ وَ اَنَا اَجْزِئُ بِهِ
- (4) اِتَّقُوا النَّارَ وَ لَوْ بِشِقِّ تَمْرَةٍ
- (5) الْمَاهِرُ بِالْقُرْآنِ مَعَ السَّفَرَةِ الْكِرَامِ الْبَرَّةِ
- (6) اَيُّهُ الْمُنَافِقُ ثَلَاثٌ وَ اِنْ صَامَ وَ صَلَّى وَ زَعَمَ اَنَّهُ مُسْلِمٌ اِذَا اٰثُوْمِنَ خَانَ، وَ اِذَا حَدَّثَ كَذَبَ، وَ اِذَا وَعَدَ اَخْلَفَ
- (7) اِنْ اَكْمَلَ الْمُؤْمِنِيْنَ اِيْمَانًا اَحْسَنُهُمْ خُلَفًا
- (8) الْاَحْيَاءُ مِنَ الْاِيْمَانِ

تعليمات اسلام

باب سوم:

- 1- توحید 2- اطاعت رسول ﷺ 5- عدل

سيرت طیبہ

باب چہارم:

افضل □ ارسل ﷺ، رسالت کا مفہوم، منصب اور اس کی عظمت، او □ اعزم انبیاء علیہم □ سلام کی تبلیغی مساعی، آنحضور کی تکمیل فریضہ رسالت، مکی دور عربی زبان کے قواعد

باب پنجم:

اسم، فعل اور □ رف کی پہچان، و □ د، تثنیہ اور جمع، مذکر و مؤنث

### REDUCED SYLLABUS

### ISLAMIC HISTORY

For Class IX (marks 75)

- Condition of the world with particular reference to Arabs before the Advent of Islam**
  - Conditions of Pre-Islamic Arabia viz. Religious, Social, Economics and Political
- Life of Rasulallah (SAW)**
  - Life of Rasulallah (SAW) upto the declaration of Nubuwwat.
  - His Daawat
  - Hijrat-i-Habsha



- d. Shiaab-i-Abi Talib
- e. Miraj
- f. Journey to Taif
- g. Hijrat-e-Madina, Muwakhat
- h. MeethaqiMadina (Pact)
- i. Brief History of the main Ghazwat,
- j. Importance of Treaty of Hudabiya
- k. Conquest of Makkattul-Mukarrama
- l. Hajjat-ul-Widda and KhutbatulWidaa

**3. Teaching of the Rasulullah (SAW)**

Teaching of the Holy Prophet (peace be upon him) as:

- a. Social Reformer, Head of the State
- b. Supreme Commander, Chief Justice

**4. Khulafa-i-Rashideen**

A brief biographical description of the Khulafa-i-Rashideen

- a. Hazrat Abu Bakr Siddiq
- b. Hazrat Umar Farooq
- c. Hazrat Usman Ghani
- d. HazratAli-al-Murtaza and Hazrat Hassan

**5. Achievements of Khulafa-i-Rashideen**

- a. Contribution towards the cause of Islam.

**REDUCED SYLLABUS**  
**ECONOMICS**  
For Class IX (marks 75)

**III. Subject Matter of Economics**

1. Wants
2. Goods and services.
3. Utility, Scarcity, value and price.
4. Wealth.
5. The nature of Economic Problem (to be explained without going into the rigor of formal definitions).

**IV. Basic Concepts**

1. Income (Personal Income and Disposable Personal Income)
2. NI, GNP, GDP and NNP.
3. Consumption
4. Saving
5. Investment.

**V. Demand**

1. Definition
2. Law of demand.
3. Factors affecting demand.

**VI. Supply**

1. Definition.
2. Stock vs Supply
3. Law of supply.
4. Factors affecting supply.

**VII. Price Determination**

2. Equilibrium between demand and supply.

**VIII. Production and Distribution**

2. Agents/ Factors of Production (Land, Labour, Capital and Organization) and their rewards.
3. Characteristics of Land, Characteristics of Labour, Functions of Capital and Types of Organization (definitions)

## **REDUCED SYLLABUS EDUCATION-IX**

### **I. Concepts of Education**

1. Definitions and meaning of Education.
2. General concept/view point of Education
3. Islamic Concept/View points of Education

### **II. Scope and Functions of Education**

1. Function of Education for development of individual and society.

### **III. Human Development and Growth**

1. Meaning and definition of development
2. Childhood
3. Adolescence
  - i) Physical and
  - ii) Mental Development

### **IV. Learning**

1. Learning (meaning and definition)
2. Individual differences in learning

### **V. Home, School and Society**

1. Meaning and definition of home, school and society
2. Relationship between school, community and society
3. Ways to promote home, school and community relationship

## **REDUCED SYLLABUS CIVICS – IX**

### **I. Introduction to Civics**

1. Definition
2. Nature
3. Significance

### **II. Individuals in Interaction**

Civic relationships in the following groups:

- \* Family      \* Community      \* Society      \* Nation      \* Ummah

### **III. State**

1. Definition
2. Constitutional elements of state/Islamic State
3. Functions of the Islamic State
4. Role of Mass Media in a Welfare State with reference to I.T.

### **IV. Government**

1. Definition
2. Significance
3. Executive
4. Legislature
5. Judiciary
6. Democracy
7. Dictatorship
9. Government's role and functions in Islamic perspective

### **V. Citizen and Citizenship**

1. Definition of citizen & citizenship
2. General characteristics of good citizenship
3. Nature and Significance of citizenship in Islamic perspective

### **VI. Rights and Responsibilities**

1. Definition of Rights
2. Rights and Responsibilities with special reference to 1973 Constitution
3. Fundamental human rights
4. Rights and responsibilities in an Islamic State
5. Human Rights violation

**REDUCED SYLLABUS  
CLOTHING AND TEXTILE**

For Class IX (marks 65)

- I. Clothing and personal grooming principles of art applied to selection of fabrics and clothes:**
  - 2. Study of design elements/Principles in dress
  - 3. Selection of appropriate dress and accessories
- II. Selection of clothes:**
  - 1. Factors affecting selection of clothing such as family budget, activities, seasons of the year, age, sex and occasion in terms of social customs of the country
  - 3. Planning clothes for wardrobe of the family members
- III. Sewing equipment, its proper use and care**
- IV. Learning about drafting and measurement**

# **REDUCED SYLLABUS**

## **HEALTH AND PHYSICAL EDUCATION-IX**

Theory

Marks: 65

1. Meaning and Scope of Physical Education:
  - a. Definition of Physical Education, its relationship with Health Education and General Education
  - b. Aims and objectives of Physical Education
2. Theory of Movements:  
Movements of the body:
  - i. Fundamental: Stretching, Bending, Twisting, etc.
  - ii. Derived: Walking, Running, Jumping, Climbing, Throwing, etc.
3. Educational gymnastics:
  - a. Its importance and modern trends
  - b. Activities in educational gymnastics:
    - ii. Turning and twisting,
    - iv. Balancing and weight bearing,
    - vi. Forward and backward rolls.
4. Posture:  
Posture, its importance and defects  
(Defects: Round back, hallow back, un-even shoulders, flat foot)
7. Games:  
Rules and basic techniques of the following:
  - i. Badminton
  - ii. Volleyball
8. Athletics:  
Rules and basic techniques of the following Athletic events:
  - i. 100, 200 meters races
  - ii. Putting the shot
9. Health Education:
  - i. Health Education and its importance
  - ii. Public health problems
11. Mechanism of body movements:
  - i. Joints
  - ii. Muscles

**REDUCED SYLLABUS  
ESSENTIAL OF HOME ECONOMICS  
For Class-IX (75 Marks)**

- 1. INTRODUCTION TO HOME ECONOMICS**
  - 1.1 Definition of Home Economics
  - 1.2 Aims and objectives of Home Economics
  - 1.3 Significance of Home Economics
  - 1.4 Relationship with other subjects
  - 1.5 Roles and responsibilities of Home Economist in family and community
- 2. INTRODUCTION TO FOOD AND NUTRITION**
  - 2.1 Definition of food and nutrition
  - 2.2 Effects of malnutrition
  - 2.3 Functions of food
  - 2.4 Study of basic nutrients
  - 2.5 Diet and health
- 3. UNDERSTANDING OF FOOD AND DIET**
  - 3.1 Definition of balanced diet
  - 3.2 Basic food groups
  - 3.3 Nutritional needs of individuals
- 5. INTRODUCTION TO CHILD CARE AND DEVELOPMENT**
  - 5.1 Meaning and definition of human development
  - 5.2 Significance of studying human development
  - 5.3 Principles of growth and development
- 8. ROLE OF FAMILY AND COMMUNITY IN HUMAN DEVELOPMENT**
  - 8.1 Parent child relationship
  - 8.2 Sibling relationship
  - 8.3 Peer relationship
  - 8.4 Role of Caretaker

**REDUCED SYLLABUS**  
**FOOD AND NUTRITION**  
For Class IX (marks 65)

**1. Nutrition and Health:**

1. What is nutrition? Essentials of good nutrition
2. Signs of good nutrition
3. Study of daily food intake using the three basic food groups.
  - a. Foods for protection
  - b. Foods for energy
  - c. Foods for growthImportance of cultivating desirable food habits

**2. Food nutrients and body requirements; Food and its nutrient composition, carbohydrates, fats, proteins, vitamins, minerals and water**

Sources of food nutrients, General functions of food nutrient and the effect of deficiencies



**REDUCED SYLLABUS  
ENGLISH LITERATURE – I**

**Prescribed Books:**

- i. Poetry: More poems for Young people (Part-I) Oxford University Press, Lahore  
(Poem No.2 and 3 are excluded)
- ii. Prose: Great Expectations (Abridged Series, Longmans)  
Questions related to the following prose:
  1. Pip                      2. Mrs. Joe                      3. Mr. Joe
  4. The Two Prisoners                      5. Miss Havisham
  6. Estellaand story (plot of the play) only shall be given.
- iii. Plays: Two one act plays edited by D.Y. Morgan  
(Oxford University Press) (Count's Revenge) only one play  
Questions related to "THE COUNT OF MONTE CRISTO. (formerly called  
Edmond Dantes) and story (plot of the play) only shall be given.

## نصاب عربی برائے جماعت نہم

- ۱۔ الدرس الأول: قَبَسٌ مِّنْ نُورِ اللَّهِ عَزَّوَجَلَّ (۱)
- ۲۔ الدرس الثاني: اللَّهُ يَا مُرْنَا بِالْأَخْلَاقِ الْحَسَنَةِ  
السِّيَرَةُ النَّبَوِيَّةُ (۱)  
مَوْلِدُ الرَّسُولِ ﷺ  
مُحَادَثَةٌ (۱)
- ۳۔ الدرس الثالث: مَدْرَسَتِي
- ۵۔ الدرس الخامس: مِنْ هَذِي النُّبُوَّةِ (۱)  
جَوَامِعُ الْكَلِمِ  
الْمُرَاسَلَةُ (۱)
- ۶۔ الدرس السادس: رِسَالَةُ الْبِنْتِ إِلَى الْوَالِدِ وَالرَّدُّ عَلَيْهَا  
السُّعْرُ الْمُخْتَارُ (۱)
- ۷۔ الدرس السابع: شِعْرُ الْحَمْدِ لِلَّهِ وَالثَّنَاءِ عَلَيْهِ  
السِّيَرَةُ النَّبَوِيَّةُ (۲)
- ۸۔ الدرس الثامن: مَبْعَثُ الرَّسُولِ ﷺ  
مُحَادَثَةٌ (۳)
- ۹۔ الدرس التاسع: وَ سَائِلُ النَّقْلِ
- ۱۱۔ الدرس الحادي عشر: مِنْ هَذِي النُّبُوَّةِ (۲)  
رَسُولُ اللَّهِ يَا مُرْنَا بِالْأَخْلَاقِ الْحَسَنَةِ
- ۱۲۔ الدرس الثاني عشر: السُّعْرُ الْمُخْتَارُ (۲)  
شِعْرُ الْمَدَائِحِ النَّبَوِيَّةِ
- ۱۳۔ الدرس الثالث عشر: وَطَنُنَا (۱)
- ۱۶۔ الدرس السادس عشر: جُمْهُورِيَّةُ بَاكِسْتَانِ الْإِسْلَامِيَّةُ  
السُّعْرُ الْمُخْتَارُ (۳)  
النَّشِيدُ الْإِسْلَامِيُّ

١٤. الدرس السابع عشر: أسلافنا وقادتنا (١)  
الصديق الأكبر رضي الله عنه
١٩. الدرس التاسع عشر: المراسلة (٢)  
رسالة صديق إلى صديق والرد عليها
٢٠. الدرس العشرون: وطننا (٢)  
ثراء باكستان وخيراتها



**REDUCED SYLLABUS**  
**Art and Model Drawing SSC-I**

**Art History: 35 marks**

<b>Chapters</b>	<b>Points to be discussed Generally</b>	<b>Contents to be focused on:</b>
<b>Architecture</b>	<ul style="list-style-type: none"> <li>• Comprehension and application of four steps of Art Appreciation: description, Analysis, Interpretation and Evaluation.</li> <li>• Difference in Architecture relating from ancient time to contemporary times.</li> <li>• General introduction to respective civilizations/ periods.</li> <li>• Focus should be on the general plan and techniques employed in ornamentation.</li> </ul>	<p>✓ <b>Great Bath</b> <i>(Is important to study the religious beliefs, use of standardized brick, materials (the choice of materials) salient features, and its historical significance.)</i></p> <ul style="list-style-type: none"> <li>• <b>Julian Monastery</b></li> <li>• (Why the Monasteries were made and its presence in &amp; around the monastery.)</li> <li>• <b>Lahore fort in Mughal era</b></li> <li>• <b>Badshahi mosque</b></li> <li>• <b>Quaid-e-Azam Mausoleum</b></li> <li>• <b>Minar-e-Pakistan</b></li> </ul> <p><i>(discuss in detail time line, Area, plan, influences, symbolism, material and technique, with special focus on the decorative aspect of the above mentioned)</i></p>
<b>Painting</b>	<ul style="list-style-type: none"> <li>• General introduction to respective periods and regions with geographical conditions, economic conditions, social set up, religious beliefs.</li> <li>• Introduction to miniature paintings, beginning, climax and decline.</li> <li>• Focus on the technique of painting.</li> </ul>	<p>✓ <b>Buddha with blue Lotus flower</b> ✓ <b>Mughal miniature painting</b> ✓ <b>Master painters of Pakistan*</b></p> <ul style="list-style-type: none"> <li>• <b>Shakir Ali</b></li> <li>• <b>Allah Bakhsh</b></li> <li>• <b>Anna Molka Ahmed</b></li> </ul> <p><i>(discuss in detail time line, area, influences, symbolism, material and technique, with special focus on the style of the above mentioned</i> *Biography and at least 3 characteristic work)</p>
<b>Calligraphy</b>	<ul style="list-style-type: none"> <li>• Introduction to historical background of traditional technique</li> <li>• Differentiate between the work of traditional master calligrapher and the artworks where calligraphy is the subject of painting.</li> </ul>	<p>✓ <b>Traditional, Geometrical and Cursive Calligraphy</b> ✓ <b>Master Calligraphers of Pakistan*:</b> <i>(Master calligrapher)</i></p> <ul style="list-style-type: none"> <li>• <b>Sadequain</b></li> <li>• <b>Khushid Gohar Qalam</b></li> <li>• <b>( Calligraphic painters)</b></li> </ul> <p><i>(discuss the time line, area, influences symbolism, material and technique with special reference to the individual style of the above mentioned and *Biography and characteristics of work)</i></p>
<b>Crafts: Textile</b>	<ul style="list-style-type: none"> <li>• Trace the development of Art/craft in the sub-continent.</li> <li>• Interpret, identify and relate</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Printing</b></li> <li>• <b>Block printing- Ajrak</b></li> <li>• <b>Embroidery:</b></li> </ul>

	features that are common in the mentioned historical and contemporary regional crafts.	<p><b>Embroidery in regional styles- Ralli and mirror work</b></p> <p><i>(discuss in detail time line, area, influences, symbolism, material and technique and decorative aspects of the above mentioned)</i></p>
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**In addition to above mentioned categories students must explore their surroundings and historical/contemporary/regional examples.**

## **ART & MODEL DRAWING I**

### **STUDIO WORK:**

**Details of Portfolio (End of Year's work) Max Marks: 50**

### **2D FINE ARTS**

#### **Drawing/ Painting**

- Still life                      4
- Landscape                      3
- Nature study                      2

The works should reflect the observational skills in drawing and painting. Students should be encouraged to have maximum practice in sketching and drawing and explore maximum options available in mediums.

Medium: lead and colour pencil, crayons, pastels, water colours, poster colours, and mixed media.

### **2D APPLIED ARTS**

- **Calligraphy 3**
  - a. Study the anatomy of letter; Urdu and English.
  - b. Reduction and enlargement(Medium as per choice)
- **Posters 4**  
(The posters should reflect the drawing, painting and calligraphy skills along with creative idea)  
Medium: poster colours and mixed media
- **Repeat Pattern 12**

(Students must workout different types of repeats) using mainly Poster colours

## **RATIONALE FOR THE REDUCTION OF SYLLABUS**

### **PART-I**

- Nothing was reduced from **Architecture Section**
- In **Painting Section** painters were halved by the reduction of 3 painters. Surviving painters will give a clear idea about the painting scene in Pakistan.
- The same was done in **Calligraphy Section**.
- One craft was reduced in the last section
- Nothing is reduced from the practicals.
- Briefing from teachers can enable students to complete their work at home.

**REDUCED SYLLABUS  
GEOGRAPHY**

For Class IX (marks 75)

- 1. Understanding Geography**
  - i. Geography
  - ii. Scope and main branches of Geography.
  - iii. Geography and other Social and Natural Sciences.
- 2. The Earth Basic Concerns**
  - i. Earth in the Universe
  - ii. Shape and size of the earth
  - iii. Earth movement
- 3. The Land**
  - i. Structure of the Earth
  - ii. Physical features
  - iii. Agents of change
- 4. Oceans and Seas**
  - i. The World Oceans, Seas and human life
- 5. The Atmosphere**
  - i. Introduction
  - ii. Understanding Atmosphere
  - iv. Winds
  - v. Clouds
  - vi. Rainfall

**REDUCED SYLLABUS**  
**GEOGRAPHY OF PAKISTAN – I**  
(In lieu of Urdu Compulsory Paper – I)

- 1. The Creation of Pakistan**  
Neighbors, Administrative Divisions and Emergence of Pakistan
- 2. Land form**  
Mountains, Plateaus, Plains, Deserts, and Rivers, Physiographic divisions
- 4. Natural Vegetation**  
Types and distributions, importance, deforestation and afforestation
- 7. Population**  
Size, Growth, Urbanization, Distribution of rural population, Occupation, Employment and population problems
- 8. Cities and villages**  
Geographical characteristics of Pakistan villages and cities, function and importance of Peshawar and Quetta

**REDUCED SYLLABUS  
COMMERCIAL GEOGRAPHY**

For Class IX (marks 75)

1.
  - a. Definitions of Commercial Geography
  - b. Relationship of Commerce and Geography
  
2. **Base of Commercial Activities**
  - a. Definitions of demand, supply Market, Business and trade
  - c. Factors promoting market, business and trade. (Location, Culture and Transportation)
  
3. **Resources of Pakistan**
  - a. Resources
  - b. Types of resources (Primary & Secondary)
  - c. Commercial activates
  
4. **Commercial Resources of Pakistan Agriculture**
  - a. Agriculture
  - b. Agricultural products and their distribution inland (major cities only)
  - c. Major areas of Production
  - d. Commercial Agriculture
    - i. Livestock
    - ii. Fishery
  - e. Pattern of Distribution. Problems of boosting. Agro- Commercial activities, Technology, storage, Communication (Be discussedbriefly)
  
5. **Commercial Resources of Pakistan (Minerals & Powers)**
  - b. Important minerals and power resources
  - c. Production, distribution and uses
  - d. Energy (Oil, Gas, Electricity and Solar energy)
  - e. Brief introduction of Nuclear Energy



## منتخب نصاب اُردو لازمی

شامل نصاب عنوانات برائے جماعت دہم

1. □مد (نظم) (مشق مکمل)
  2. نعت (نظم)
  3. نظریہ پاکستان
  4. مجھے میرے دوستوں سے بچاؤ
  5. ملمع
  6. چغل خور
  7. نام دیو مائی
  8. علی بخش
  9. میدان کربلا میں گرمی کی شدت
  10. فاطمہ بنت عبد اللہ
  11. □سرت موہانی (غزل)
  12. جگر مراد آبادی (غزل)
  13. قواعد و انشاء (مضمون نگاری، کہانی نویسی)
- بمطابق کتاب اُردو قواعد و انشاء نہم و دہم پنجاب ٹیکسٹ بک بورڈ لاہور۔

نوٹ : ( مصنفین اور شعرا کے تعارف میں سے کوئی سوال نہیں بنایا جائے گا )

**REVIEWED SYLLABUS  
ENGLISH SSC-II**

<b>Unit #</b>	<b>Title</b>	<b>Contents /Exercises to be covered</b>
1	Hazrat Muhammad (PBUH) an Embodiment of Justice	<ul style="list-style-type: none"> <li>• Glossary &amp; Vocabulary (Ex-A&amp;B)</li> <li>• Reading Comprehension (A &amp;C)</li> <li>• Grammar: Concrete &amp; Abstract Noun (Exercise A, B &amp;C)</li> </ul> Homework: Writing Skills Exercise(A&B)
2	Chinese New Year	Grammar – Collective Nouns Exercises – A
3	Try Again (Poem)	<ul style="list-style-type: none"> <li>• Theme of the poem</li> <li>• Stanza Comprehension</li> <li>• Reading Comprehension Exercise-A</li> <li>• Figures of Speech (Simile &amp; Alliteration)</li> <li>• Grammar: Personal Pronoun &amp; Degrees of Adjectives(Exercise A,B,C &amp; D)</li> </ul> Homework: Writing Skills (Exercise-A)
4	First Aid	<ul style="list-style-type: none"> <li>• Glossary Exercise –A, B &amp; C</li> <li>• Reading Comprehension Exercise-A &amp;B</li> <li>• Grammar (Adverb, Adverb Phrase, Infinitive &amp; gerund)Exercise –A, B, C&amp; D</li> </ul> Homework: Writing Skills “How to take care of cuts and scraps?”
5	The Rain (Poem)	<ul style="list-style-type: none"> <li>• Theme</li> <li>• Stanza Comprehension</li> <li>• Figures of Speech (Metaphor &amp; Personification)</li> <li>• Vocabulary Exercise A, B, C&amp; D</li> <li>• Reading Comprehension Exercise-A&amp;B</li> <li>• Grammar (Transitive &amp; Intransitive Verbs) Exercise-A</li> </ul>
6	Television Vs News paper	Grammar – First Conditionals Exercises – C
7	Little by Little One Walks Far	Indefinite Pronouns Exercises – A, B
8	Peace (Poem)	Grammar – Pronouns Exercises – A, B,C
9	Selecting the Right Career	<ul style="list-style-type: none"> <li>• Glossary, Vocabulary (Exercise A,B&amp; C)</li> <li>• Reading Comprehension (Exercise-A)</li> <li>• Grammar (Noun Clause)</li> </ul> Homework: Writing Skills (Exercise-C)
10	The World without Books	<ul style="list-style-type: none"> <li>• Reading Comprehension Exercise-A</li> <li>• Grammar (Relative Pronoun &amp; Adjective Clause) Exercise (A &amp; B)</li> </ul> Homework: Glossary & Vocabulary

11	Great Expectations	Grammar, Narration Exercises – D
12	Population Growth and World Foods Supplies	Grammar, Subordinating Conjunctions – Adverb Clauses Exercises – A, B ,C, D
13	Faithfulness	<ul style="list-style-type: none"> <li>• Reading Comprehension(Page -154)</li> <li>• Grammar (Conditional Sentences), Compound &amp; Complex Sentences</li> </ul> Homework: Glossary & Vocabulary

## GRAMMAR & COMPOSITION

- i. All parts of speech (types & subtypes)
- ii. Types of phrases, clauses & sentences(Identification only)
- iii. Conditional Sentences
- iv. Verbals (Gerund, Participles & Infinitive)
- v. Narration (Exercises from pages 173 -177, English Grammar and Composition, PTB, Lahore,1<sup>st</sup> Edition March, 2020)
- vi. Prepositional /Phrasal Sr#1-60 (Pages 159 –161,English Grammar and Composition, PTB, Lahore,1<sup>st</sup> Edition March, 2020)
- vii. Comprehension Paragraphs Verbs (Exercises 1-15 pages 38-45(from English Grammar and Composition, PTB, Lahore,1<sup>st</sup> Edition March, 2020)
- viii. Application /Letter
  - a. Write an application to the MD of a firm for the post of Manager.
  - b. Write an application to the principal of your school regarding access to e-library
  - c. Write a letter the editor of a newspaper regarding poor sanitation.
  - d. Write a letter the editor of a newspaper regarding increasing rate of street crimes.
- ix. Essay writing
  - a. My Aim in Life
  - b. Overpopulation
  - c. Patriotism
  - d. Beauties of Village Life
  - e. My Ideal Personality
  - f. Green and Clean Pakistan

### NOTE:

1. Unit No. 2,6,7,8, 11 & 12 are entirely excluded.
2. All Review Exercises (I, II & III) in the English Text Book are entirely excluded.
3. The overall pattern and weightage of annual paper will remain the same, however, both objective and subjective paper will be from the reduced /selected contents.
4. All grammar based content is supposed to be taken from the prescribed /recommended grammar book “(English Grammar and Composition, PTB, Lahore,1<sup>st</sup> Edition March, 2020.

**REVIEWED SYLLABUS  
MATHEMATICS SSC-II  
Science Group**

<b>Unit 1</b>	<b>Quadratic Equations</b>
Ex. 1.1	Q1(iv, vi); Q2(i, iv, v); Q3(i, ii, iv, vi, vii, viii, ix);
Ex. 1.2	Q1(iii, iv, vii, viii, ix)
Ex. 1.3	Q2; Q4; Q5; Q7; Q9; Q10; Q13; Q14
Ex. 1.4	Q3; Q7; Q8; Q10; Q11
Miscellaneous Ex 1	Q1; Q2; Q3
<b>Unit 2</b>	<b>Theory of Quadratic Equations</b>
Ex. 2.1	Q1(i, iii); Q2(iii, iv); Q3; Q4(ii, iii); Q5; Q6; Q8(ii)
Ex. 2.2	Q1; Q2(ii, iv, vii, viii); Q3; Q5
Ex. 2.3	Q1(i, ii, iv); Q2(i); Q3(i); Q4(ii); Q5(ii, iii); Q6(i)
Ex. 2.4	Q1(ii, iii); Q2(iii, iv)
Ex. 2.5	Q1(c, g, h); Q2(a, c, d, e); Q3(a)
Ex. 2.6	Q1(ii, iii); Q2(ii); Q3(i); Q4(i, iii); Q5(i)
Ex. 2.7	Q1; Q3; Q4; Q5; Q6; Q9
Ex. 2.8	Q2; Q4; Q5; Q6; Q7
Miscellaneous Ex 2	Q1; Q3
<b>Unit 3</b>	<b>Variations</b>
Ex. 3.1	Q1(iii, iv); Q2(i, ii); Q3; Q4; Q6; Q9; Q11(iii, iv)
Ex. 3.2	Q1(i, iii); Q3; Q6; Q7; Q8; Q9
Ex. 3.3	Q1(iii, iv, vi); Q2(ii, iv, v); Q3(iii, iv); Q4(ii, iii)
Ex. 3.4	Q1(i, iv, v, vii); Q2(iii, v, vi, viii, ix)
Ex. 3.5	Q2; Q3; Q5; Q6
Ex. 3.6	Q1(ii, iii, iv, vi); Q2(i, ii)
Ex. 3.7	Q1; Q2; Q6; Q7; Q8
Miscellaneous Ex 3	Q1; Q3
<b>Unit 4</b>	<b>Partial Fractions</b>
Ex. 4.1	Q2; Q3; Q4; Q7; Q8
Ex. 4.2	Q1; Q2; Q4; Q7
Ex. 4.3	Q1; Q4; Q6; Q8
Ex. 4.4	Q1; Q2; Q3
Miscellaneous Ex 4	Q1
<b>Unit 5</b>	<b>Sets and Functions</b>
Ex. 5.1	Q2(i, iv); Q3(i, iii, v); Q4(i, ii, iii, iv); Q5(i)
Ex. 5.2	Q1(ii, iii); Q2; Q3; Q4(i)
Ex. 5.3	Q1(i, v, vi); Q3; Q4(i, iii, iv, v)
Ex. 5.4	Q2; Q3(ii, iii); Q4; Q5(ii, iii)
Ex. 5.5	Q1; Q2; Q4; Q5; Q6(vii, viii)
Miscellaneous Ex 5	Q1; Q2; Q3
<b>Unit 6</b>	<b>Basic Statistics</b>
Ex. 6.1	Q1; Q2; Q4; Q5
Ex. 6.2	Q3; Q6; Q7; Q9; Q10; Q12; Q13

Ex. 6.3	Q4; Q5; Q6; Q7
Miscellaneous Ex 6	Q1
<b>Unit 7</b>	<b>Introduction to Trigonometry</b>
Ex. 7.1	Q1(ii, iii, vi, viii); Q2(i, ii); Q3(ii, v); Q4(ii, iv, v, vii); Q5(ii, v, vii)
Ex. 7.2	Q1(ii); Q2(ii); Q3(ii); Q5; Q10; Q13
Ex. 7.3	Q1(ii, iv); Q2(ii, iv); Q3(ii, iii); Q7; Q8; Q9; Q10; Q12(ii, iii, v, vii, ix, xi)
Ex. 7.4	Q8; Q9; Q11; Q12; Q13; Q16; Q17; Q18; Q20; Q21; Q23; Q24
Ex. 7.5	Q5; Q6; Q7; Q8; Q9; Q10; Q12
Miscellaneous Ex 7	Q1; Q3
<b>Unit 8</b>	<b>Projection of a side of a Triangle</b>
Ex. 8.1	Q1
Ex. 8.2	Q2; Q3
Theorems	Theorem 1; Theorem 2
Miscellaneous Ex 8	Q4; Q6; Q8; Q10
<b>Unit 9</b>	<b>Chords of a Circle</b>
Ex. 9.1	Q3; Q4
Ex. 9.2	Q2; Q3
Theorems	Theorem 1; Theorem 2; Theorem 4
Miscellaneous Ex 9	Q1; Q2
<b>Unit 10</b>	<b>Tangent to a Circle</b>
Ex. 10.1	Q1
Ex. 10.2	Q1; Q2
Theorems	Theorem 3; Theorem 4(A); Theorem 4(B)
Miscellaneous Ex 10	Q1
<b>Unit 11</b>	<b>Chords and Arcs</b>
Ex. 11.1	Q1; Q2;
Theorems	Theorem 1; Theorem 3; Theorem 4
Miscellaneous Ex 11	Q1
<b>Unit 12</b>	<b>Angle in a Segment of Circle</b>
Theorems	Theorem 1; Theorem 3
Miscellaneous Ex 12	Q1
<b>Unit 13</b>	<b>Practical Geometry- Circle</b>
Ex. 13.1	Q3(ii); Q5; Q6
Ex. 13.2	Q1; Q2; Q3; Q6; Q7
Ex. 13.3	Q1; Q2; Q3; Q5; Q6; Q9
Miscellaneous Ex 13	Q1; Q2; Q3

**NOTE:**

- All Class work will be given for revision as H.W.
- The MCQ's Portion of the annual paper will be taken from MCQ's exercise at the end of the chapters: so MCQ's will be done in class by class teacher.

**REVIEWED SYLLABUS  
GENERAL MATHEMATICS SSC-II**

<b>Unit 1</b>	<b>Algebraic Formulas and Applications</b>
Exercise 1.1	Q2; Q4; Q7; Q8; Q9; Q11; Q14; Q15; Q20; Q21; Q24; Q28; Q31
Exercise 1.2	Q1; Q3; Q4; Q8; Q9; Q12; Q13; Q15; Q17; Q20; Q22
Exercise 1.3	Q1; Q2(ii, iii, v); Q3(i, iii, vi, viii); Q4; Q6; Q7
Review Ex 1	Q-I; Q-II

<b>Unit 2</b>	<b>Factorization</b>
Exercise 2.1	Q1; Q2; Q5; Q8; Q9; Q12; Q14; Q16
Exercise 2.2	Q1; Q4; Q6; Q7; Q8; Q12
Exercise 2.3	Q1; Q2; Q3; Q4; Q6; Q9; Q12; Q13; Q16; Q17
Exercise 2.4	Q1; Q2; Q6; Q7; Q12; Q13; Q16; Q17; Q19; Q21
Exercise 2.5	Q6; Q9; Q10; Q16; Q17; Q18; Q19; Q20
Review Ex 2	Q-I; Q-II

<b>Unit 3</b>	<b>Algebraic Manipulations</b>
Exercise 3.1	Q1; Q3; Q6; Q7; Q8; Q12; Q13
Exercise 3.2	Q1; Q3; Q5; Q7; Q8
Exercise 3.3	Q1; Q4; Q5; Q6; Q8; Q10; Q13
Exercise 3.4	Q1; Q3; Q7; Q9; Q12; Q14; Q16
Exercise 3.5	Q1; Q2; Q3; Q5; Q8; Q10; Q12
Exercise 3.6	Q1; Q3; Q4; Q9; Q11
Review Ex 3	Q-I; Q-II

<b>Unit 4</b>	<b>Linear Equations and Inequalities</b>
Exercise 4.1	Q1(i, iii); Q2; Q3; Q7; Q10; Q11; Q12; Q15; Q20
Exercise 4.2	Q1; Q5; Q7; Q9; Q12; Q14; Q16
Review Ex 4	Q-I; Q-II

<b>Unit 5</b>	<b>Quadratic Equations</b>
Exercise 5.1	Q1; Q3; Q4; Q5; Q7; Q12; Q13; Q14; Q17; Q18; Q19; Q23
Exercise 5.2	Q1; Q4; Q5; Q7; Q9; Q11
Exercise 5.3	Q1; Q3; Q6; Q8
Review Ex 5	Q-I; Q-II

<b>Unit 6</b>	<b>Matrices and Determinants</b>
Exercise 6.1	Q1; Q2; Q3; Q4
Exercise 6.2	Q1; Q2; Q3
Exercise 6.3	Q1(i, iii, iv); Q3(i); Q4; Q5(ii); Q6; Q8; Q10; Q11
Exercise 6.4	Q2; Q3; Q9; Q10; Q15; Q16
Exercise 6.5	Q1(i, ii); Q2(i, iii); Q3(i, iv); Q4; Q5
Exercise 6.6	Q1; Q2(i, v); Q3; Q4(i, iii, iv); Q5(i, iii);
Review Ex 6	Q-I; Q-II

<b>Unit 7</b>	<b>Fundamental of Geometry</b>
Exercise 7.1	Q3; Q4; Q6; Q7(ii, v, x)
Exercise 7.3	Q5; Q6
Exercise 7.4	Q2; Q4; Q5
Exercise 7.5	Q1
Exercise 7.6	Q1
Review Ex 7	Q-I; Q-II

<b>Unit 8</b>	<b>Practical Geometry</b>
Exercise 8.1	Q1; Q2; Q3; Q4; Q6; Q7; Q8; Q9; Q11; Q14; Q21; Q23; Q26; Q27
Review Ex 8	Q-I; Q-II

<b>Unit 9</b>	<b>Areas and Volumes</b>
Exercise 9.1	Q1; Q2; Q5; Q8; Q9; Q10

<b>Exercise 9.2</b>	<b>Q1; Q3; Q4; Q6; Q7; Q9; Q10(i); Q13; Q15; Q17</b>
<b>Exercise 9.3</b>	<b>Q1; Q2; Q4; Q6; Q8</b>
<b>Review Ex 9</b>	<b>Q-I; Q-II</b>

<b>Unit 10</b>	<b>Introduction of Coordinate Geometry</b>
<b>Exercise 10.1</b>	<b>Q1; Q2; Q4; Q6; Q9; Q10; Q12; Q13</b>
<b>Review Ex 10</b>	<b>Q-I; Q-II</b>



## اسلامیات (لازمی) جماعت دہم

□ جزء الاول: من ہدی □ قرآن:

1- سورة الا □ زاب آیات 34-1

2- سورة □ ممتحنة آیات 6-1

(بامحاورہ ترجمہ، □ کلمات و □ تراکیب بشمول □ تمارین مکمل)

□ جزء □ ثانی: من ہدی □ حدیث:

1- ترجمہ □ دیث نمبر 20-11

2- تشریح و عملہ زندگی سے تعلق □ دیث نمبر 15-11

□ جزء □ ثاٹ: موضوعاتی مطابعم:

1. طہارت □ 3- عائلی زندگی

4. ہجرت و جہاد

نوٹ: مذکورہ بالا تینوں موضوعات کے تمام مشقی سوالات شامل ہیں۔

## **PAKISTAN STUDIES SSC-II**

### **CHAPTER 6 HISTORY OF PAKISTAN II**

TOPICS: Key aspects of the constitution of 1973, major aspects of the Islamization process during 1977-88, Pakistan as a nuclear power, the system of devolution of power initiated by PrevezMusharaf with particular emphasis on local self-government, local government plan 2000.

Long questions: 2-3-4-7

### **CHAPTER 7 FOREIGN RELATIONS OF PAKISTAN**

Topics: objectives of Pakistan's foreign policy, Pak-India relation, Pak-China relation, Pak-Afghan relation, genesis and development of Kashmir issue, Pakistan development of Kashmir issue, Pakistan relation with central Asian countries, Pakistan contribution towards peace-keeping in world

Long question 1-2-3-5-7-8-12

### **CHAPTER 8 ECONOMIC DEVELOPMENT**

Topics: Agriculture, main problems associated with agriculture, industries of Pakistan, different sources of energy, important sector of economy, Agriculture potential of Pakistan along with problems and measures for maximization of yield

Long questions: 1-2-3-8-9

### **CHAPTER 9 POPULATION, SOCIETY AND CULTURE OF PAKISTAN**

TOPICS: Major Features of Pakistani Society and Culture, Educational Structure of Pakistan, Major Social Problems of Pakistan, Role of minorities in Pakistan, commonality in regional cultures leading to national integration and cohesion

Long question: 1-2-5-6-7

### **NOTE:**

- All MCQs of all chapters given in exercise are included in syllabus

## PHYSICS SSC-II

### NOTE:

- All conceptual questions and side information are excluded.
- Only topic based related MCQs, Short and Long Questions and numerical are included.

### UNIT 10 SIMPLE HARMONIC MOTION AND WAVES

- 10.1 Simple Harmonic Motion (Mass Attached with spring, Motion of simple Pendulum only)
- 10.3 Wave Motion
- 10.4 Types of mechanical waves

### UNIT 11 SOUND

- 11.1 Sound Waves
- 11.2 Characteristic of sound(Loudness,pitch,quality,intensity,intensity level)
- 11.3 Reflection of sound (Echo)
- 11.4 Speed of sound (Measuring speed of sound by Echo Method is excluded)
- 11.7 Audible frequency range
- 11.8 Ultra sound

(Tables: 11.1, 11.2 are included)

### UNIT 12 GEOMETRICAL OPTICS

All theory topics from 12.1 -12.10

### UNIT13 ELECTROSTATICICS

- 13.1 Production of electric charges
- 13.2 Electrostatic induction
- 13.4 Coulomb's Law
- 13.5 Electric Field and electric intensity
- 13.6 Electrostatic Potential
- 13.7 Capacitors and capacitance

### UNIT 14 CURRENT ELECTRICITY

All theory topics from 14.1-14.11

### UNIT 15 ELECTROMAGNETISM

- 15.1 Magnetism effects of steady current
- 15.5 electromagnetic induction
- 15.6 Direction of induce emf, Lenz's law
- 15.8 Mutual induction
- 15.9 Transformer

### UNIT 16 BASIC ELECTRONICS

- 16.1 Thermionic emission
- 16.2 Investigating the properties of electron
- 16.4 Analog and Digital electronics
- 16.5 Basic operation of digital electronics
- 16.6 -16.10 All Logic gates

### UNIT 18 ATOMIC AND NUCLEAR PHYSICS

18.1-18.9 (all theory topics)

**PHYSICS – SSC**  
**LIST OF PRACTICALS**

**SECTION-A**

1. To measure the volume of a solid cylinder by measuring length and diameter of a solid cylinder with Vernier calipers.
2. To measure the thickness of a metal strip or a wire by using a screw gauge.
3. To find the acceleration of a ball rolling down an angle iron by drawing a graph between  $2S$  and  $T^2$ .
4. To study the relationship between load and extension (Helical spring) by drawing a graph.
5. To find the density of a body heavier than water by Archimedes principle.

**SECTION-B**

1. To study the effect of the length of simple pendulum on its time period and hence find “g” by calculation.
2. To verify the laws of refraction by using a glass slab.
3. To find the refractive index of water by using concave mirror.
4. To trace the path of a ray of light through glass prism and measure the angle of deviation.
5. To verify the truth table of OR, AND, NOT, NOR and NAND gates.

## REVIEWED SYLLABUS CHEMISTRY SSC-II

**NOTE:** Side Boxes like (Society, Technology and Science, Do you know, Science, Tit Bits are excluded from the syllabus, it is obvious that the topic which are excluded questions relevant in the exercises are omitted.

### **Chapter 9: Chemical Equilibrium**

Reversible reaction and dynamic equilibrium, Law of mass action and its derivation, equilibrium constant and its unit, Importance of equilibrium constant.

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

### **Chapter 10: Acid, Bases, and salt**

Concept of Acid and bases, Arrhenius, Lowry and Bronsted-Lowry, Lewis concept of acid and bases, pH scale, Salts, Uses of salts.

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

### **Chapter 11: Organic Chemistry**

Organic compound, Chemical diversity and magnitude of organic compound, general characteristic of organic compound, condensed and structural formula, saturated and unsaturated hydrocarbon, Naming alkane, sources, and uses of organic compound, alkane and alkyl radical, classification of organic compound, functional group (complete topic).

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

### **Chapter 12: Hydrocarbon**

Hydrocarbon and its types, Alkane, preparation of alkanes, Properties of alkanes, Alkene, preparation of alkene, Properties of alkenes, Alkynes, preparation of alkynes, Properties of alkynes.

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

### **Chapter 13: Biochemistry**

Carbohydrates and its types, sources and uses of carbohydrates, nucleic acid, DNA, RNA, Vitamin and Types of Vitamin.

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

### **Chapter 14: Environmental Chemistry**

Layers of atmosphere, Air pollutants, Effect and sources of air pollutant, Global warming, acid rain and its effects, Ozone depletion and its effect.

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

### **Chapter 15: Environmental Chemistry II Water**

Topics: Soft and Hard water, Types of soft and hard water, Methods of removing hardness

ofwater, Water bornediseases.

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

#### **Chapter 16 Chemical Industries**

Topics: Basic metallurgical operation, Solvay process, Urea, Fractional distillation of petroleum.

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

#### **NOTE:**

- **It is obvious that questions of topics not mentioned above are not included in exam.**
- **Paper will be curriculum based not book based.**

## REVIEWED LIST OF PRACTICALS CHEMISTRY-SSC

### Physical States of Matter

Determine the Melting Point of Naphthalene. Major Determine the Boiling Point of Ethyl Alcohol. **Major**

Separate naphthalene from the given mixture of sand and naphthalene by sublimation. **Major**

### Solutions

Prepare 100 cm<sup>3</sup> of 0.1M NaOH solution. Major Prepare 250 cm<sup>3</sup> of 0.1M HCl solution. **Major**

Prepare 100 cm<sup>3</sup> of 0.1M NaOH solution from the given 1M solution. **Major**

Prepare 100 cm<sup>3</sup> of 0.01M HCl solution from the given 0.1M solution. **Major**

Prepare 100 cm<sup>3</sup> of 0.01M oxalic acid solution from the given 0.1M solution. **Major**

Prepare pure Copper Sulphate crystals from the given impure sample. **Minor**

Demonstrate that temperature affects solubility. **Minor**

### Electrochemistry

Demonstrate the conductivity of different given solutions. **Minor**

### Chemical Reactivity

Demonstrate that an element and a compound can react to form a different element and a different compound. **Minor**

Demonstrate that some chemical reactions absorb energy. **Minor**

### Acids, Bases and Salts

Identify sodium, calcium, strontium, barium, copper, potassium radicals by flame test. **Minor**

Standardize the given NaOH solution volumetrically. Major Standardize the given HCl solution volumetrically. **Major**

Determine the exact molarity of the Na<sub>2</sub>CO<sub>3</sub> solution volumetrically. **Major**

Classify substances as acidic, basic or neutral **Minor**

### Organic Chemistry

Identify aldehydes using Fehling's test and Tollen's test. **Major**

Identify carboxylic acids using sodium carbonate test. Major Identify Phenol using Ferric Chloride test. **Major**

### Hydrocarbon

Identify saturated and unsaturated organic compounds by KMnO<sub>4</sub> test. **Minor**

### Water

Demonstrate the softening of water by removal of calcium ions from hard water. **Major**

## BIOLOGY SSC-II

**NOTE:**

1. Only topic based relevant MCQs, Short and Long Questions are included.
2. All information in side boxes is excluded.

Ch. #	Chapter Name	Topics Included
10	Gaseous Exchange	Gaseous Exchange in Plants (page 2-3) Gaseous Exchange in Humans (4-6) The Lungs (6) Mechanism of Breathing (7)
11	Homeostasis	Osmotic Adjustment in plants (20-21) Urinary System of Human Structure of Kidney, Functioning of Kidney, Osmoregulatory Function of the Kidney (22-26) Dialysis (27-28)
12	Coordination and Control	Types of Coordination (Coordination Action Excluded) (33) Human Nervous System (34-41) Receptors in Humans, Eye (42-43) Ear (45-46) Endocrine System (47-51)
13	Support and Movement	Human Skeleton (57) Bone and Cartilage (58-60) Components of Human Skeleton (60) Types of Joints (62-63) Muscles and Movement (63-64)
14	Reproduction	Reproduction (70) Methods of Asexual Reproduction (70-75) Binary Fission, Fragmentation, Budding, Spore Formation, Parthenogenesis, Vegetative Propagation (natural and Artificial Vegetative Propagation Excluded) Sexual reproduction in plants (78) Sexual Reproduction in Flowering Plants (78-81) Pollination and Its Types Sexual Reproduction in Animals (84) Formation of Gametes (84-85) Reproduction in Rabbit (87-88)
15	Inheritance	Introduction to Genetics (94) Chromosome and Genes (94-98) Mendel's Laws of Inheritance (90-101)
16	Man and His Environment	Components of Ecosystem (114) Biogeochemical Cycles (119-121) Interactions in Ecosystems (122-125)
17	Biotechnology	Introduction to Biotechnology (138) Fermentation (139-140) Genetic Engineering (144-147)
18	Pharmacology	Medicinal Drugs (150-151) Antibiotics and Vaccines (155-156)



## **BIOLOGY – SSC**

### **List of Practical**

- 1. Introduction to Biology**
  1. Study of different types of bacteria with the help of prepared slides and of *Amoeba, Paramecium, Volvox* from prepared slides/ fresh culture/charts
- 4. Cells and Tissues**
  3. Examination under the microscope an animal cell (e.g. from frog's blood) and a plant cell (e.g. from onion epidermis), using an appropriate temporary staining technique, such as iodine or methylene blue
- 5. Cell Cycle**
  7. Observation of various stages of mitosis and meiosis by slides, model and charts
- 7. Bioenergetics**
  10. Demonstration of the process of photosynthesis using an aquatic plant, like *Hydrilla*
- 8. Nutrition**
  15. Food tests: Benedict's test for reducing sugar, iodine test for starch, spot test and emulsion test for fat, and Biuret test for protein in solution
  16. Microscopic examination of a transverse section of the small intestine to show the villi
- 9. Transport**
  19. Investigation of the rate of water loss at the two surfaces of a leaf by a simple experiment using cobalt chloride paper
  20. Investigation of transpiration in potted plant under a bell jar
  22. Identification of red and white blood cells under the light microscope on prepared slides and in diagrams and photomicrographs
  23. Investigation of the effect of physical activity on pulse rate
- 10. Gaseous Exchange**
  24. Activity to compare the breathing rate at rest and after exercise
  26. Demonstration of the presence of tar in cigarette smoke and also by charts showing pictures of lungs of smokers and nonsmokers
- 11. Homeostasis**
  27. Examination of the structure of kidney (sheep kidney/model)
- 12. Coordination in Man**
  28. Study of human eye, ear and brain
- 14. Reproduction**
  30. Observation of binary fission of amoeba using slides, photomicrographs or charts
  31. Observation of budding in yeast from prepared slides
  32. Examination of a bulb (onion), corn (*Edocasia*), rhizome (ginger) or stem tuber (potato) and its cultivation to get new plants

## COMPUTER SCIENCE SSC-II

### List of Topics for Theory

- Unit 01 Programming Techniques (**complete chapter**)
- Unit 02 Programming in C (**complete chapter**)
- Unit 03 Input and Output Handling (**complete chapter**)
- Unit 04 Conditional Control Structure (**complete chapter**)
- Unit 05 Loop Control Structure (**complete chapter**)
- Unit 06 Computer Logic and Gates (**reduced chapter**)
  - 6.1 Data representation in computer (**included**)
  - 6.2 Logic gates(**included**)
- **Unit 07 Skipped whole chapter in theory**

### List of Practicals

#### PROGRAMMING LANGUAGE C

- Program to find the Addition, Subtraction, Multiplication and Division of two numbers by using of printf() and scanf() Functions
- C Program to Calculate Area and Circumference of Circle
- C Program to Calculate Area of Right angle Triangle
- C Program to Calculate Area of Rectangle
- C Program to calculate sum of 5 subjects and find percentage
- C Program to compare two integers and three integers
- Use of if()- else
- C Program to find whether the number is even or odd
- C Program to find if a given number is positive or negative
- C Program to Swap Two Numbers using temporary variable (temp)
- C Program to convert temperature from degree Centigrade to Fahrenheit
- C Program to print first 10 Natural numbers using for() loop
- C Program to print first 10 Natural numbers using while() loop
- C Program to print first 10 Natural numbers using do-while() loop
- C Program to check whether the number is Prime or not
- C Program to find table of a number
- C Program to print numbers in reverse order from 1 to 10
- C Program to print even and Odd numbers from 1 to 20
- C Program to find Roots of a Quadratic Equation
- C Program to find the Grade of a student on percentage marks
- C Program to find Grade of a student using switch statement
- C Program to find the Sum of odd series from 1 to 100
- C Program to print the following number pattern Nested loop
- C Program to create a simple calculator using Switch statement
- C Program to find Factorial of a number
- C Program to find GCD of two numbers

Note: In Chapter-2 should be complete included as without introduction cannot be understood without basic concept.

In chapter-6 (6.3 Simplification of Boolean function using Karnaugh Map) excluded being not relevant to other chapters.

## GENERAL SCIENCE SSC-II

### Chapter 3 **Bio Chemistry and Bio Technology**

- Metabolism
- Digestion of food(Carbohydrates, Proteins and fats)
- Enzymes
- Human Blood
- Chromosomes,DNA and Genes
- Antibiotic and Genes

### Chapter 4 **Man and Health**

- Major components of Food(vitamin)
- Balanced diet
- First Aid

### Chapter 6 **Environment and Natural Resources**

- Atmosphere
- Different layers of atmosphere
- Ozone, Green House Effect, Human activity and disturbance of climate
- Pollution (Air, water and Land Pollution)
- Effect of rising population on environment

### Chapter 8 **Current Electricity**

- Electric Current
- Voltage
- Resistance
- Ohm's Law
- Electric circuit
- Direct current (DC) and Alternating current (AC)

### Chapter10 **Science and Technology**

- Science and technology in the past
- Advancement in science and technology
- LASER
- Satellites
- X-Ray, Ultrasound, Electro cardiography(ECG),Magnetic Resonance Imaging(MRI)

### Chapter 11 **Pakistan's Space and Nuclear Program**

- Space Exploration
- Satellites
- Space Shuttle
- Pakistan space program
- Pakistan Nuclear Program(Nuclear Technology, nuclear power Generation)

Justification: With the removal of Exercise Question Numbers the rest of the syllabus is OK.  
Any Question related to given topics can be included in exams.

**REDUCED SYLLABUS**  
**ETHICS (For non-muslims)**  
**For Class-X (50 Marks)**

**1. INTRODUCTION TO RELIGIONS**

- The role of religion in resolving crisis
- The concepts of sin and crime

**2. WORLD RELIGIONS**

- Mahavira
  - His life
  - Basic teachings

**3. ETHICS AND VALUES**

- Concepts of piety, mercy, compassion, clemency, honesty and righteousness in main religions of the world
- Concept of accountability and its influence on human character

**5. PERSONALITIES**

- Aristotle and his theory of ethics
- Kant and his theory of ethics
- Sri Arubindu

## مختصر سلیبس اسلامیات اختیاریہ جماعت دہم

□ قرآن

باب اول:

آیات قیامت، آیات □ کام، آداب و اخلاق

### القرآن

#### بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

- (1) إِذَا السَّمَاءُ انْفَطَرَتْ ؕ سَے - - - - وَ الْأَمْرُ یَوْمَئِذٍ لِلّٰهِ ؕ تَک (الانفطار: 1 تا 29)
- (2) الْمَ ؕ ذٰلِکَ الْکِتَابُ لَا رَیْبَ فِیْهِ سَے - - - - اِنَّمَا نَحْنُ مُسْتَهْزِئُوْنَ ؕ تَک (البقرہ: 1 تا 4)
- (3) لَیْسَ الْبِرُّ اَنْ تُوَلُّوْا وُجُوْهُکُمْ سَے - - - - وَ اَلِیْکَ هُمْ الْمُنْتَفِئُوْنَ ؕ تَک (البقرہ: 177)
- (7) اِنَّ اللّٰهَ اشْتَرٰ مِنْ الْمُؤْمِنِیْنَ سَے - - - - وَ بَشِّرِ الْمُؤْمِنِیْنَ ؕ تَک (التوبہ: 111 تا 112)
- (8) وَ فَضَلِیْ رَبُّکَ اَلَّا تَعْبُدُوْا سَے - - - - عِنْدَ رَبِّکَ مَكْرُوْهُمَا ؕ تَک (بنی اسرائیل: 23 تا 38)
- (9) اِلَیْہِا الَّذِیْنَ اٰمَنُوْا اِنْ جِئْتُمْ سَے - - - - اِنَّ اللّٰهَ عَلِیْمٌ حَبِیْرٌ ؕ تَک (الحجرات: 6 تا 13)

ال□ ادیث (اُتھ □ ادیث)

باب دوم:

#### بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

- (1) لَیْسَ مِنْہَا مَنْ لَمْ یَرْحَمْ صَغِیْرًا وَ لَمْ یُوَقِّرْ کَبِیْرًا
- (2) مَنْ لَمْ یَشْکُرِ النَّاسَ لَمْ یَشْکُرِ اللّٰهَ
- (3) مَنْ لَا یَرْحَمْ لَا یَرْحَمْ
- (4) مَا اَمِنَ بَیْ مَنْ بَاتَ شَبَعَانَ وَ جَارُهُ جَائِعٌ
- (5) اَوْلٰی النَّاسِ مَنْ بَدَنَهُمْ بِالسَّلَامِ
- (6) دِمَائُکُمْ وَ اَمْوَالُکُمْ عَلَیْکُمْ حَرَامٌ
- (7) وَ اِتْلُ الْاَسْفَعُ، قَالَ: یَا رَسُوْلَ اللّٰهِ: مَا الْعَصَبِیَّةُ؟ قَالَ: اَنْ تُعِیْنَ قَوْمَکَ عَلٰی الظُّلْمِ
- (8) مَنْ فَتَحَ عَلٰی نَفْسِہٖ بَابَ مَسْئَلَةٍ، فَتَحَ اللّٰهُ عَلَیْہِ بَابَ فُقْرٍ

تعلیمات اسلام

باب سوم:

- 1- جہاد □ لال
- 2- اکل □ لال
- 3- عفت □ یاء
- 4- سماجی

انصاف

سیرت طیبہ

باب چہارم:

مدنی دور، ختم نبوت، آنحضورؐ کا پاکیزہ کردار، عہد طفولیت، عہد شباب، اخلاق نبویؐ

عربی زبان کے قواعد

باب پنجم:

فعل ماضی، مضارع اور امر۔ فعل معروف و مجهول۔ مرکب اضافی، مرکب توصیفی، جملہ اسمیہ، مبتداء، خبر، جملہ فعلیہ، فعل، فاعل، مفعول

**REDUCED SYLLABUS**  
**ISLAMIC HISTORY**  
For Class X (marks 75)

**1. Role of the Umayyad in Islamic Civilization**

- i. Amir Muawiya.
- ii. Yazid (Karbala & Hazrat Imam Hussain)
- iii. Abdullah Bin Zubair.
- iv. Abdul Malik Bin Marwan.
- v. Walid Bin Abdul Malik.
- vi. Umar bin Abdul Aziz
- vii. Causes of decline.

**2. Importance of the Umayyad Khulafa**

- i. Expansion and propagation of Islam. (Contributions of Hujjaj bin Yusuf Muhammad IbniQasim, Qutaiba bin Muslim, Muslama, Musa ibniNusair, Tariq bin Ziyad)
- ii. Administration.

**3. Role of Abbasid Khulafa in Islamic Civilization**

- i. Alsaffah
- ii. Al-Mansoor
- iii. Harun-ur-Rashid
- iv. Baramika
- v. Mamun-ur-Rashid

**4. Importance of the Abbasid Khulafa**

- i. Cultural scientific and literary achievements
- ii. Causes of decline

**REDUCED SYLLABUS**  
**ECONOMICS**  
For Class X (marks 75)

**1. Economic Legacy of Pakistan**

- ii. Economic problems of Pakistan at the time of independence.
  - Agricultural backwardness.
  - Industrial backwardness.
  - Population Pressure.
  - Low per capita income and poverty.
  - Budget Deficit and Trade Deficit.

**2. Money**

- i. Barter system and its difficulties.
- ii. Money (definition and functions).
- iii. Kinds of Money-metallic, paper and credit (examples from Pakistan).

**3. Banks**

- i. Definition (Central Bank and Commercial Bank).
- ii. Kinds of banks (Central Bank, Commercial Bank, Agricultural Bank, Industrial Bank, Investment Bank).

**4. Trade**

- i. Domestic and Foreign Trade (Definitions)
- ii. Distinction between domestic and Foreign trade
- iii. Advantages and disadvantages of foreign trade.
- iv. Major imports and exports of Pakistan.

**5. Public Finance**

- i. Public and private Finances (Definition and Difference)
- ii. Budget (definition)

**7. Islamic Economic System**

*Basic concepts of:*

- i. Zakat
- ii. Usher
- iii. Economic Importance of Zakat and Ushr

**NOTE:** Syllabi is reduced by 30% to 40% keeping in view the instruction, given by the Government of Pakistan, as conveyed by FBISE, Islamabad. Lengthy, confusing and unnecessary topics are excluded to ease the students as well as teachers and to technically prepare the full-length paper as per pattern of FBISE.

## **REDUCED SYLLABUS EDUCATION-X**

### **VI. Education in Pakistan**

1. Aims of Education in Pakistan.
2. Types of Education:
  - General Education
  - Professional Education
3. Stages of Education:
  - Elementary
  - Secondary
  - Tertiary

### **VII. Curriculum**

1. Meaning and definition of Curriculum
2. Elements of Curriculum:
  - Content
  - Teaching Aids
  - Evaluation
3. Process of Curriculum Development in Pakistan.

### **VIII. Organization of School Activities**

1. Importance of Co-Curricular activities in school
2. Role of Co-Curricular activities in the development of an individual

### **IX. Guidance and Counseling**

1. Meaning and definition of guidance and counseling
2. Problems of students at School:
  - Educational problems
  - Economic problems
  - Personal problems
3. Role of guidance and counseling in school



## سوکس برائے جماعت دہم

- 1- دو قومی نظریہ اور پاکستان کا قیام میں آئینی ارتقاء
- 2- □ ہور پاکستان
- 3- پاکستان
- 4- دستور پاکستان 1973ء
- 6- پاکستان و بیرونی دنیا

## **REDUCED SYLLABUS CLOTHING AND TEXTILE**

For Class X (marks 65)

- 1. Study of textile fibres and fabrics of common use e.g.**
  - i. Cotton
  - ii. Acetate
  - iii. Nylon
  - iv. Orlon
  - v. Silk
  - vi. Wool
  - vii.
  - viii.
- 2. Method for care and storage of clothing:**
  - i. Principles of laundry, dry cleaning, stain removal
  - ii.
  - iii. Methods of storage
- 3. Learning about drafting and measurements.**

### **CLOTHING AND TEXTILE**

List of Practicals

Year Work:

#### **For Class-IX**

- 1 Drafting and construction of 'Shalwar'
- 2 Seam and seam finishes
  - i. Plain seam
  - ii. Flat fell seam
  - iii. Welt seam
  - iv. French seam

#### **Seam Finishes**

- i. Over casting
- ii. Pinking
- iii. Pinked and stitched edges
- iv. Turned and stitched edges

#### **For Class-X**

- 3 Drafting individual bodice block, taking accurate measurements and using correct drafting procedure
- 4 Drafting and construction of 'Qameez'
- 5 Laundry and stain removal

## **REDUCED SYLLABUS HEALTH AND PHYSICAL EDUCATION-X**

Theory

Marks: 65

1. Physical fitness  
Physical fitness and its importance
2. Qualities of sportsmen
6. Games  
Rules and Basic Techniques of Hockey Game, Table Tennis
7. Athletics  
Rules and basic techniques of the following Athletic events:
  - i. 4 x 100 metres relay
  - ii. Long jump and throwing the discus
8. Recreation
  - i. Place of recreational activities in Physical Education
  - ii. Camping, hiking, picnics and excursions
9. Community Health
  - i. Sanitation of home, school and community
  - ii. Prevention of communicable diseases
  - iii. Air and ventilation
10. Nutrition
  - i. Constituents of food
  - ii. Balanced diet
  - iii. Food contamination
  - iv. Food adulteration
  - v. Drinks:  
Tea, Coffee, Sharbat, Squaish, Lassi, Juices, etc.

**REDUCED SYLLABUS  
ESSENTIALS OF HOME ECONOMICS  
For Class-X (75 Marks)**

- 9. INTRODUCTION TO TEXTILES AND CLOTHING**
- 9.1 Definition and importance of Textiles and Clothing
  - 9.2 Fibres
  - 9.3 Classification and characteristics of textile fibres
  - 9.4 Study of fabrics available in the market - - - pure and blends
- 10. DRESS MAKING**
- 10.1 Equipment of tailoring
  - 10.2 Tailoring principles
  - 10.3 Guidelines for selection of materials and design
- 12. INTRODUCTION TO MANAGEMENT**
- 12.1 Concepts of management
  - 12.2 Values and goals
  - 12.3 Management of resources
    - Time
    - Energy
    - Money
- 13. ENVIRONMENT AND MANAGEMENT**
- 13.1 Healthy environment
  - 13.2 Sanitation and waste management
  - 13.3 Safety in the home
- 14. ART AND DESIGN**
- 14.1 Understanding design
  - 14.2 Understanding elements and principles of design
  - 14.3 Design and creativity

## REDUCED SYLLABUS FOOD AND NUTRITION

For Class X (marks 65)

2. **Your food:**
  - Washing, cleaning and preparing of foods
  - Basic principles of cooking food, minimizing nutrient losses
3. **Food Hygienics and Sanitations:**
  - Sources of contamination of food
  - Food borne diseases

### REDUCED LIST OF PRACTICALS FOOD AND NUTRITION

ناشتہ بنانا، روٹی پکانا، سبزیوں کی بھجیا بنایا، انڈے بنانا، سلاد تیار کرنا، سادہ کباب بنانا، گوشت بنانا، پانی پکانا، سادے چاول، سبزیاں اپانا، پلاؤ بنانا، پرائٹھا پکانا، کھچڑی پکانا، شامی کباب بنانا، آم کی چٹنی، ٹماٹر کی چٹنی، رائتہ۔  
میٹھے کھانے: فیرنی، کسٹرڈ، سوچی کا □ لوہ، انڈے کا □ لوہ، شیر خرما، زردہ، سویوں کا زردہ، کیک اور بسکٹ۔

**REDUCED SYLLABUS  
ENGLISH LITERATURE – II**

**Prescribed Books:**

- i. Poetry: More poems for young people (Part-II)  
(Poem No.10 and 12 are excluded)
- ii. Prose: Power and Progress by G.G. Thornley  
(Essay No.III, IV, VI and VIII are excluded)
- iii. Plays: Two one act plays edited by D.Y. Morgan(“Progress”)  
Question related to character of “PROFESSOR HENRY CORRIE, D.Sc.” shall  
be given and story (plot) of the play.

## نصاب عربی برائے جماعت دہم

- ۱۔ الدرس الحادی والعشرون: مُحَادَثَةٌ (۵)  
عَالَمُنَا الْإِسْلَامِيُّ
- ۳۔ الدرس الثالث والعشرون: السيرة النبوية (۳)  
الغزوات النبوية
- ۴۔ الدرس الرابع والعشرون: أسلافنا وقادتنا (۲)  
علي المرتضى رضي الله عنه
- ۵۔ الدرس الخامس والعشرون: وطننا (۳)  
المصايف في بلادنا
- ۶۔ الدرس السادس والعشرون: قبس من نور الله عز وجل (۳)  
بناء الأسرة المسلمة
- ۸۔ الدرس الثامن والعشرون: أسلافنا وقادتنا (۳)  
محمد بن القاسم الثقفي عليه الرحمة
- ۹۔ الدرس التاسع والعشرون: المراسلة (۳)  
خطاب تجاري و الرد عليه
- ۱۱۔ الدرس الحادي والثلاثون: الشعر المختار (۲)  
شعر الحكمة
- ۱۲۔ الدرس الثاني والثلاثون: وطننا (۵)  
المجتمع الباكستاني
- ۱۵۔ الدرس الخامس والثلاثون: قبس من نور الله عز وجل (۲)  
بناء الأمة الإسلامية
- ۱۶۔ الدرس السادس والثلاثون: مُحَادَثَةٌ (۷)  
التسهيلات الطبية في باكستان
- ۱۷۔ الدرس السابع والثلاثون: مُحَادَثَةٌ (۸)  
وسائل الإعلام المعاصرة

- ١٨- الدرس الثامن والثلاثون: مُحَادَثَةُ (٩)  
الطُّلَابُ يَسْأَلُونَ وَالْأُسْتَاذُ يُجِيبُ
- ١٩- الدرس التاسع والثلاثون: الشِّعْرُ الْمُخْتَارُ (٥)  
عُيُونُ الشِّعْرِ
- ٢٠- الدرس الأربعون: مُحَادَثَةُ (١٠)  
دُنْيَانَا هَذِهِ



**REDUCED SYLLABUS**  
**Art and Model Drawing SSC-II**

**Art History: 35 marks**

<b>Chapters</b>	<b>Points to be discussed Generally</b>	<b>Contents to be focused on:</b>
<b>SCULPTURE/ ARCHITECTUREAL RELIEF:</b>	<ul style="list-style-type: none"> <li>• Timeline and geographical situation of Indus Valley civilization and Gandhara</li> <li>• Difference in techniques of 3D art in different periods under discussion</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Indus seals</b></li> <li>• <b>King Priest</b></li> <li>• <b>Fasting Buddha from Gandhara</b></li> <li>• <b>Chaukandi graves/ Makli hills</b></li> <li>• <b>Master Sculptors of Pakistan:</b> Shahid Sajjad and</li> </ul>
<b>POTTERY/ CERAMICS:</b>	<ul style="list-style-type: none"> <li>• Timeline and geographical situation of the areas under discussion.</li> <li>• Potter's wheel and variety of clays types</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Examples from Mehrgarh,</b></li> <li>• <b>Indus Valley</b></li> <li>• <b>Glazed pottery of Hala and Multan</b></li> <li>• <b>Master Ceramists of Pakistan:</b>Mian Salahuddin</li> </ul>
<b>METAL CRAFT</b>	<ul style="list-style-type: none"> <li>• Metallurgy since Indus Valley civilization and its evolution in usage with special reference to design</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Indus Dancing girl</b></li> </ul>
<b>WOOD WORK</b>	<ul style="list-style-type: none"> <li>• Wood used as material since ancient times.</li> <li>• Types of woods according to use</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Functional:</b> Furniture and architectural components</li> <li>• <b>Decorative:</b> Carving and inlay techniques and examples</li> </ul>

**ART & MODEL DRAWING II**  
**STUDIO WORK:**

**Details of Portfolio (End of Year's work) Max Marks: 50**

**2D FINE ARTS**

**Drawing/ Painting**

- Portrait 3
- Life drawing 4

The works should reflect the observational skills in drawing and painting. Students should be encouraged to have maximum practice in sketching and drawing and explore maximum options available in mediums.

Medium: lead and colour pencil, pen & ink, crayons, pastels, water colours, poster colours, and mixed media.

**2D APPLIED ARTS**

- Poster 4
- Book illustration 3

- **COMPUTER ARTS:** At least one project (**Optional wherever available**) posters, illustration and other computer generated art forms) medium: Paint Brush/ Photo Shop/ Coral Draw

**Note:**

- It is desired that student selects the best work for the portfolio and exhibit in presentable manner.
- The works be duly signed, dated and stamped by the Art teacher.
- The works reflect the knowledge and understanding of elements of Visual Art and principles of design.
- **Plagiarism should be vigilantly checked by the Art teacher.** For practice purposes copied work is allowed, yet no copied work shall be accepted as part of Portfolio.

**RATIONALE FOR THE REDUCTION OF SYLLABUS**

**PART-II**

- One sculptor and ceramist in reduction from sculpture and pottery Ceramics section. The remaining artists will given a summary of contemporary sculpture and ceramics practice in Pakistan.
- Metal craft got a bigger slash, as the remaining example will still give an clear introduction to the metal craft.
- In practicals only sculpture and ceramics practicals are reduced as they require practicals are reduced as they require teachers supervision throughout the process.
- Nothing else is reduced for the portfolio

**REDUCED SYLLABUS  
GEOGRAPHY**

For Class X (marks 75)

- 1. Introduction to Human Geography**
  - i. Nature
  - ii. Scope
- 2. Population**
  - i. Introduction
  - ii. Population Growth
  - iii. Population Distribution and density
- 3. Settlement**
  - i. Rural Settlement
  - ii. Urban Settlement
  - iii. Social problems relating to rural and urban settlements
- 4. The Environment**
  - i. Introduction
  - ii. Environmental Problems, Natural and Man related
- 5. Study of Maps**
  - i. Definition
  - ii. Direction & Scale
  - iii. Conventional signs/symbols
  - iv. Type of maps

**REDUCED SYLLABUS**  
**GEOGRAPHY OF PAKISTAN – II**  
(In lieu of Urdu Compulsory Paper – II)

1. **Resource: Natural and Human**  
Definition and importance, Water, Minerals, Energy, Forests etc. level of education, skilled, semi-skilled and unskilled labour force, conservation or resources
2. **Agriculture, Irrigation and related problems**  
Importance of Irrigation, Modes of irrigation canals
3. **Agriculture Crops and Livestock**  
Methods of cultivation, traditional recent changing trends. Agricultural land use. Wheat, Rice, Sugarcane and Cotton
4. **Industry**  
Factors for location of industries factory industries, iron and steel, ship building, cotton textile
5. **Means of Transport**  
Transport importance, Railways, Roads
6. **Trade**  
Importance, internal and external trade

**REDUCED SYLLABUS  
COMMERCIAL GEOGRAPHY**

For Class X (marks 75)

- 1. Commercial Resources of Pakistan (Industry)**
  - i. Industrial products
  - ii. Types of industries
    - Cottage                      – Small scale                      – Large scale
  - iii. Major industries
  - iv. Major problems of industrial development
  
- 2. Means of Transportation and Communication**
  - ii. Means of transportation
  - iii. Means of communication
  
- 3. Major Commercial Activities**
  - i. National and International financial Institutions;
    - National: - Banks - Insurance- Government Agencies - IDBP, PIDC
    - IMF
  - ii. Imports Exports (be discussed briefly)
  - iii. Balance of payments and trade (be discussed briefly)
  - iv. Foreign Exchange (significance)
  
- 4. Important Commercial Cities and Ports**
  - i. Major commercial cities and ports of Pakistan
  - ii. Four big cities of the World and their main commercial activities: London, New York, Tokyo, Cairo
  
- 5. Commercial Geography and National Integration**
  - i. Meaning of national integration
  - ii. Commercial activity as a mean to integration