

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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اردو منتخب سلیبس جماعت نہم کے لیے

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

عنوانات	جماعت کا کام	گھر کا کام
ہجرت نبوی صلی اللہ علیہ وسلم	مشقی سوال نمبر (جز، الف ب ج د)، مشقی سوال نمبر 7,9,10	مشقی سوال نمبر (جز، ہ و ز)، مشقی سوال نمبر 2,3,4,8,
کابلی	مشقی سوال نمبر (جز، الف ب ج د)، مشقی سوال نمبر 4	مشقی سوال نمبر (جز، د)، مشقی سوال نمبر 2,3,5
آرام و سکون	مشقی سوال نمبر (جز، الف ب ج د)، مشقی سوال نمبر 3,4	مشقی سوال نمبر (جز، ہ و ز)، مشقی سوال نمبر 2,5,7,8
امتحان	مشقی سوال نمبر (جز، الف ب ج د)، جملے کے اجزائے ترکیبی (صفحہ نمبر 75,76)	مشقی سوال نمبر (جز، د ہ)، مشقی سوال نمبر 4,6,7,10
قد ریا یاز	مشقی سوال نمبر (تمام اجزا)، مشقی سوال نمبر 9، (روزمرہ اور محاورے کے لحاظ سے غلط فقرات کی درستی) صفحہ نمبر 95,96	مشقی سوال نمبر 3,4,5,8,11
حمد (نظم)	مشقی سوال نمبر (جز، الف ب ج د)، مشقی سوال نمبر 3,4,2 (قافیہ اور ردیف) (صفحہ نمبر 108,109)	مشقی سوال نمبر (جز، د ہ)، مشقی سوال نمبر 5,7,8
نعت (نظم)	مشقی سوال نمبر (الف ب ج د)، مشقی سوال نمبر 2,5	مشقی سوال نمبر (جز، د ہ)، مشقی سوال نمبر 3
پہلوستہ رہ شجر سے امید بہار رکھ	مشقی سوال نمبر (تمام اجزا) مشقی سوال نمبر 2,5,10,11,12	مشقی سوال نمبر 3,6,7,9
غزل، میر تقی میر	مشقی سوال نمبر (جز، الف ب ج د)، مشقی سوال نمبر 2,4,5,6 غزل، مطلع، مقطع (صفحہ نمبر 128,129)	مشقی سوال نمبر (جز، د ہ)
غزل اسد اللہ خان غالب	مشقی سوال نمبر (جز، الف ب ج د)، مشقی سوال نمبر 3,2 کنایہ (صفحہ نمبر 138)	مشقی سوال نمبر (جز، د ہ)، مشقی سوال نمبر 8,3
قواعد و انشا، بمطابق کتاب ”اردو قواعد و انشا نہم، دہم، پنجاب ٹیکسٹ بک بورڈ“	خطوط نویسی (صفحہ نمبر 59 تا 63) مکالمہ نویسی (صفحہ نمبر 74 تا 76) روداد نویسی (ساگرہ، تقسیم انعامات، جشن آزادی)	

ENGLISH SSC-I

Unit #	Title	Contents /Exercises to be covered
1	The Saviour of Mankind	• Reading Comprehension (Exercise-B) • Grammar (Adjective, Conditional Type-I) Exercise A, B, C &D. Homework: Vocabulary & Glossary (Exercise –A & B)
2	Patriotism	• Reading Comprehension (Exercise-A) • Grammar Modal Verbs (Exercise –A & B) • Punctuation Exercise -C Homework: Vocabulary & Glossary (Exercise –A), Writing Skills (Exercise-E)
4	HazratAsma (RA)	• Reading Comprehension (Exercise-C) • Grammar (Abstract Noun, Exercise-B& preposition of time, Exercise-E & F) • Punctuation (Exercise –G) Homework: Glossary
5	Daffodils	• Reading Comprehension (Exercise-A) • Theme /Central idea of the Poem • Figures of Speech (simile, metaphor, personification & imagery) Exercise-A, B, C • Grammar (Collective Noun, exercise-A & Conjunctions, Exercise-D) Homework: Paraphrasing of poem
6	The Quaid’s Vision and Pakistan	• Vocabulary & Glossary (Exercise A, B, C, D) • Reading Comprehension (Exercise-A) • Grammar (Adverb, Infinitive, Gerund & Conditional III) Exercises A, B, C, D& E
7	Sultan Ahmed Mosque	• Vocabulary (Exercise A, B, C & D) • Reading Comprehension (Exercise-A) • Grammar: Position of Adverbs, Degrees of Comparison (Exercise A, B & C) • Use of “Since & For” (Exercise D) page-80
12	Three Days to See	• Vocabulary (Exercise A, B &C) • Reading Comprehension (Exercise-A) • Grammar (Conditional Type-II, Kind of sentences) Exercise A, B, C • Identification Simple, Compound & Complex sentences (Exercise-D & E) • Homework: Writing Skills Exercise-A

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, 1st 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,1st Edition March, 2020)
- vii. Informal Letters (from English Grammar and Composition 9-10, PTB, Lahore,1st 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 9th), 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,1st 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,1st 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,1st Edition March, 2020)

MATHEMATICS SSC-I

(Science Group)

CHAPTER#1

EX# 1.1; Q3

EX# 1.4: Q6

EX#1.2; Q6 (i)

EX# 1.5; Q6

EX# 1.3: Q6, Q7

EX# 1.6; Q1

CHAPTER#2

EX#2.1; Q6

EX# 2.4; Q1 (i, iv), Q2, Q3 (i)

EX# 2.6; Q4 (iii, iv, v), Q6 (ii, iii, iv, vi), Q7

EX#2.3; Q1 (i), Q2 (i), Q3 (ii)

EX# 2.5; Q1 (i, iv), Q2 (ii, iv), Q3 (iii, v), Q4

CHAPTER#3

EX#3.2; Q4, Q5, Q6; Laws of logarithms

EX# 3.4; Q1 (iii, iv, viii)

Ex# 3.3; Q4 (i, ii)

CHAPTER#4

EX# 4.1; Q4 (b), Q5(i, iii, v), Q6(ii)

EX# 4.3; Q1(ii), Q2(ii), Q3(iii), Q4(iii, v)

EX# 4.2; Q1 (i), Q4, Q6, Q8

EX# 4.4; Q1 (iv, vi), Q3 (iii), Q5 (i,ii)

CHAPTER #5

EX# 5.1; Q1 (ii, v, vi), Q3 (ii, iv), Q4 (iv), Q5 (ii, v, vi)

Ex# 5.2; Q1 (iii, v), Q2 (i, vi); Q3 (iv, v), Q4 (iii, v) Q5 (ii, iv); Q6 (i, iv)

EX# 5.3; Q1 (i, iv, v), Q4, Q5

EX# 5.4; Q2, Q8

CHAPTER#6

EX#6.1; Q2 (ii, iii), Q3 (i, ii), Q5 (i, ii), Q7, Q8

EX# 6.2; Q1, Q5, Q9, Q11, Q13

EX# 6.3; Q1 (i, viii), Q2 (ii, v), Q4 (ii), Q5

CHAPTER#7

EX#7.1; Q1 (i, v, viii, x), Q2 (v,vii)

Ex# 7.3; Q1 (ii, v), Q2 (ii, v, viii)

EX# 7.2; Q2 (v, vii, viii)

CHAPTER#8

EX# 8.1; Q3, Q4, Q5

EX# 8.3; Q1, Q4, Q5

CHAPTER#9

EX#9.1; Q1 (a,c,e); Q2

EX#9.3; Q1 (b, d, f), Q2, Q3, Q6

EX# 9.2; Q1 Q3; Q6; Q9; Q10

CHAPTER#10

Review EX# 10; Q2, Q3, Q4, Q5

CHAPTER#11

Review EX #11; Q3, Q4, Q5, Q6; Theorem 11.1.2

CHAPTER#12

Theorems; 12.1; 12.1.4

CHAPTER#13

Theorem #13.1.1

CHAPTER#14

Review EX#14; Q2; Q3; Q4; Q5

CHAPTER#15

Theorem 15.1.1; Q1 (i, iv); Q3; Q8; Review#15 Q1 (v, vi)

CHAPTER#16

Review EX #16; Q2

CHAPTER#17

EX# 17.1; Q1(ii, iv, vii), Q2(iii)

EX# 17.2; Q1 (ii), Q2 (ii); Q3 (i), Q4 (i)

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.

GENERAL MATHEMATICS SSC-I

CLASS WORK	HOME WORK
UNIT-1 Percentage and Ratios EXERCISE 1.1, Q# 1 (iii, x, xii), Q2 (iv, vii), Q3 (vi, x, xii), Q4 (vi, vii, viii, xii) EXERCISE 1.2, Q# 1, 9 EXERCISE 1.3, Q# 1, 2 (viii, ix) Exercise 1.4 Q1, 6 Exercise 1.5 Q1, 3, 11	EXERCISE 1.1, Q# 1 (iv, v, vi), Q2 (xi, xii), Q3 (I, vii, ix, xi), Q4 (i to v) EXERCISE 1.2, Q# 2, 3, 7 EXERCISE 1.3, Q# 2 (i to vii) Exercise 1.4 Q7, 9 Exercise 1.5 Q2, 8, 12
UNIT-2 Zakat, Ushr, Inheritance EXERCISE 2.1, Q# 1 to 12	REVIEW Ex.2, Q# 3, 4, 5, 6
UNIT-3 Business Mathematics EXERCISE 3.1, Q# 1, 7 EXERCISE 3.2, Q# 1, 2, 5 EXERCISE 3.3, Q# 1, 6	EXERCISE 3.1, Q# 3, 8 EXERCISE 3.2, Q# 6, 8 EXERCISE 3.3, Q# 4
UNIT-4 Financial Mathematics EXERCISE 4.1, Q# 4, 5 EXERCISE 4.2, Q# 1, 6, 10 EXERCISE 4.3, Q# 1, 3 EXERCISE 4.4, Q# 1, 3 EXERCISE 4.5, Q# 1, 3	EXERCISE 4.1, Q# 6 EXERCISE 4.2, Q# 3, 14 EXERCISE 4.3, Q# 6, 9 EXERCISE 4.4, Q# 4, 5 EXERCISE 4.5, Q# 2
UNIT-5: Consumer Mathematics EXERCISE 5.1, Q# 1, 6, 7 EXERCISE 5.2, Q# 1 (ii), 2 (ii) EXERCISE 5.3, Q# 1, 4 REVIEW Ex. 5, Q# 1, 4	EXERCISE 5.1, Q# 2, 8 EXERCISE 5.2, Q# 1 (vi), 2 (i) EXERCISE 5.3, Q# 6 REVIEW Ex. 5, Q# 3
UNIT-6: Exponents and logarithms EXERCISE 6.1, Q# 1 (ii), 2 (III), Q3 (ii, vi, vii), Q4 (iii, vii), Q5 (v, vii, xi) EXERCISE 6.2, Q# 1 (v, vi), 8, 9, 11, 14, 16, 19, 25, 28 (iii, iv), 29 (vi) EXERCISE 6.3, Q# 8, 5, 10, 13 EXERCISE 6.5, Q# 1 (iii), 2 (ii, iv, v), 3(ii), 5 (i, ii, v) EXERCISE 6.6, Q# 2(i), (iv), 4(i), (vi) REVIEW Ex. 6, Q# 1, 3, 4	EXERCISE 6.1, Q# 1 (v, vi), 2 (iv), Q3 (iii, v, viii), Q4 (I to iv), Q5 (xii, xiii) EXERCISE 6.2, Q# 1 (i to iv), 10, 13, 15, 17, 28 (v), 29 (vii, viii) EXERCISE 6.3, Q# 3, 4, 14 EXERCISE 6.5 (i, ii), Q# 2 (i), 3 (iii) Q 3, 4, 14 EXERCISE 6.6, Q# 2 (ii), 4 (ii)
UNIT-7: Arithmetic and Geometric Sequences Exercise 7.1, Q# 1 (vii, ix), 3 (v, vi) Exercise 7.2, Q# 1(i, ii, iv, v)	Exercise: 7.1, Q # 1 (iv, v, viii), 2 (ii, iii), 3 (iii, iv) Exercise: 7.2 Q# 1 (iii), 2(ii, iii), 4

Exercise 7.3, Q # 1, 6, 8, 9 Exercise 7.4, Q # 1, 4, 8, 10 Exercise 7.5, Q # 1, 2, 6, 12 REVIEW Ex.7, Q# 4, 5, 6, 8	(Classwork is given as homework) (Classwork is given as homework) (Classwork is given as homework)
UNIT-8: Sets and Functions EXERCISE 8.1, Q# 5 EXERCISE 8.2, Q# 4, 5 REVIEW Ex.8, Q# 1, 4, 5, 7	EXERCISE 8.1, Q# 6, 7 EXERCISE 8.2, Q# 2, 7 (Classwork is given as homework)
UNIT-9 : Linear Graphs EXERCISE 9.1, Q# 1, 3 EXERCISE 9.2, Q# 2, 5, 7, 8, 11 EXERCISE 9.3, Q# 1, 3 REVIEW Ex.8, Q# 6, 3, 4	(Classwork is given as homework)
UNIT-10: Basic Statistics EXERCISE 10.1, Q# 2 EXERCISE 10.2, Q# 1 (ii) EXERCISE 10.3, Q# 1 (iv) EXERCISE 10.4, Q# 1 (ii) REVIEW Ex.1, Q# 1 to 6 Examples given on page 264, 365, 366, 273, 274, 284, will be solved by the teacher in class	EXERCISE 10.1, Q# 3 EXERCISE 10.2, Q# 1 (i, iii) EXERCISE 10.3, Q# 1 (i, ii) EXERCISE 10.4, Q# 1 (iv, v)

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.

اسلاميات (لازمی) جماعت نہم

الجزء الاول

من عدي القرآن الكريم

سورة الانفال آیات (1 تا 48) (صفحہ نمبر 7 تا 17)

الدرس الاول (ا)

کلاس درک مشقی سوال نمبر 1
ترجمہ آیات 1 تا 10
ہوم ورک سوال نمبر 2، 3
الکلمات والتراکیب (یاد کرنا)

الدرس الاول (ب)

کلاس درک ترجمہ آیات 11 تا 19
سوال نمبر 1، 2
ہوم ورک الکلمات والتراکیب (یاد کرنا)
سوال نمبر 3، 4

الدرس الاول (ج)

کلاس درک ترجمہ آیات 20 تا 28
سوال نمبر 1، 2
ہوم ورک الکلمات والتراکیب (یاد کرنا)
سوال نمبر 3

الدرس الثاني (ا)

کلاس درک ترجمہ آیات 29 تا 37
سوال نمبر 1، 2، 3
ہوم ورک الکلمات والتراکیب (یاد کرنا)
سوال نمبر 4

الدرس الثاني (ب)

کلاس درک ترجمہ آیات 38 تا 44
سوال نمبر 1، 2
ہوم ورک الکلمات والتراکیب (یاد کرنا)
سوال نمبر 3

الدرس الثاني (ج)

کلاس درک ترجمہ آیات 45 تا 48
سوال نمبر 1، 2
ہوم ورک الکلمات والتراکیب (یاد کرنا)
سوال نمبر 3

الجزء الثانی

من حدی الحدیث

- 1- ترجمہ حدیث نمبر 1051
- 2- تشریح و عملی زندگی سے تعلق، حدیث نمبر 551

الجزء الثالث (موضوعاتی مطالعہ)

- 1- قرآن مجید (تعارف، حفاظت اور فضائل)
کلاس ورک سوال نمبر 2 ہوم ورک سوال نمبر 1
- 2- اللہ تعالیٰ اور اس کے رسول حضرت محمد، خاتم النبیین ﷺ کی محبت اور اطاعت
کلاس ورک: سوال نمبر 2، 3 ہوم ورک سوال نمبر 1
- 3- علم کی فرضیت اور فضیلت
کلاس ورک سوال نمبر 3 ہوم ورک سوال نمبر 1
- 4- زکوٰۃ (فرضیت، اہمیت اور معارف)
کلاس ورک سوال نمبر 3 ہوم ورک سوال نمبر 1، 4

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

CLASS WORK: Long questions: 5-6-8

HOMEWORK: Short questions: 1-2-3-4-5-7-9-13

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, 3rd June 1947 plan, Quaid-e-Azam, Role in making of Pakistan, services rendered by Quaid-e-Azam.

CLASS WORK: Long question 5-6-8-10

HOMEWORK: Short questions 3-4-5-6-9-11-12-13-15

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.

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

HOMEWORK: Short questions 1-2-3-5-7-11-12

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.

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

HOMEWORK: Short question: 3-4-5-6-7-9-13-14-15

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.

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)
- 1.7 Significant figures....

Example 1.4 is H.W

Exercise: Short Question: 1.2, 1.3 (H.W)

And 1.5, 1.8, 1.11 (C.W)

Problems: 1.1, 1.5, 1.8, 1.9 (H.W) and 1.10, 1.4 (H.W)

MCQ's (1, 2, 3, 6) is (C.W)

Unit 2 Kinematics

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

Exercise:

All MCQ's are included.

Questions 2.3, 2.9 is (H.W)

2.5, 2.6, 2.10, 2.11 is (C.W)

Problems: 1-4, 6, 8

Unit 3 Dynamics

3.1: Force, Inertia and Momentum

3.2: Newton's Laws of Motion (1st 2nd 3rd, mass and weight, Force and Momentum, Law of Conservation of momentum)

3.3: Friction, Rolling Friction, Advantages / disadvantages of Friction, methods to reduce friction

3.4: Centripetal and centrifugal force

Examples 3.1-3.3, 3.6, 3.7, 3.8 (H.W)

Exercise

MCQ's 1-3, 5,7,8,9 (C.W)

Short Question 3-6, 9,10,13,15 (C.W)

Problems: 1-5, 8-10 (H.W)

Unit 4 Turning Effects of Forces

All Theory Topics 4.1- 4.8 are included.

Examples (4.1-4.3) is (H.W)

Exercise

All MCQ's are included.

Questions' 4.3-4, 7, 4.10, 4.11, 4.13 (C.W)

Problems: 4.1-4.7 (H.W)

Unit 5 Gravitation

Topic 5.1: (the force of gravitation)

5.2: (mass of Earth),

5.3: (variation of g with Altitude)

Example: 5.1 and 5.2 is (H.W)

Exercise:

MCQ's (1-4)

Short Questions: 5.2-5.4, 5-11 and 5.12

Problems: 5.1-5.5 (c.w)

Unit 6 WORK AND ENERGY

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

Example: (6.1-6.4) is H.W

Exercise: MCQ'S (1-5)

Short questions 6.3 and 6.4

Problems: (1-6)

Unit 7 Properties of Matter

Theory Topics:

7.2 Density,

7.3, Pressure,

7.5, Pressure in Liquid (Pascal's Law);

Application of Pascals, Law (Hydraulic Press Only)

7.6 Archimede's Principle,

7.7 Principle of Floatation (Ships and Submarine)

7.8 Elasticity, 7.9 Hook's Law (Young's Modulus)

Examples. 7.2, 7.3, 7.7 (H.W)

Exercise: MCQ's (2, 3, 5, 6, 7)

Short Questions: 7.11, 7.15-7.22

Problems: (7.4-77), 7.11

Unit 8 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)

Examples: 5,6

Exercise:

MCQ's 4,5,6,7

Problems: 8.3-8.5

CHEMISTRY SSC-I

Chapter 1 Branches 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)

Exercise:

MCQ: (1-10)

Short questions: (I-VIII)

Long Questions: (3-11), 14, 15

Chapter 2 Structure of Atom

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

Exercise

MCQ: (I, V, VI, VII, VIII)

Short questions: (I-V)

Long Questions: 5, 6,7,8,11,12

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, atomic size, Ionization energy and trends, Electron affinity, electro negativity

Exercise:

MCQ: (I, II, II, IV, V, V I, VII, VIII, IX)

Short question: (I, II, III, IV, V)

Long Questions: 3, 4,5,10

Chapter 4 Structure of molecule

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

Exercise:

MCQ: (I, II, II, IV, V, VI, VII, VIII, IX)

Short question: (II, III, IV)

Long Questions: 3, 5, 6, 7, 9, 10, 11, 12, 13

Chapter 5 Physical state of Matter

Boyle's Law, Charles Law, Liquid state, evaporation vapor pressure and effect of external vapor pressure, boiling point, sublimation, types of solids

Exercise:

MCQ: (I, IV, VI, VII, VIII, IX, X)

Short question: (II, III, IV , VI)

Long Questions: 5, 6, and 7,8,14

Chapter 6 Solution

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

Exercise:

MCQ: (I, II, III, VI, VII, X)

Short question: (I, II, III, VI, VII, X)

Long Questions: 4, 8, 10, 12, 13

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, 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.

Exercise:

MCQ: (I, II, V, VI, IX)

Short question: (I, II, IV, VI)

Long Questions: 6, 13 (a,b,c), 14, 15,12(a,b,c)

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.

Exercise:

MCQs (I-X)

Short Question/Answer (I-IV)

Long Questions: (Q 3, 4, 5, 8)

BIOLOGY SSC-I

Ch. #	Chapter Name	Topics Included	Review Questions
1	Introduction to Biology	Introduction to Biology (2-3) Branches of Biology The Levels Of Organization (7-13)	MCQs (1-10) (Home Work) Short Questions (1) Understanding the Concept (1,5,6,7)
2	Solving a Biological Problem	Biological Method (20-23) Theory, Law and Principle (26-27) Data Organization And Data Analysis (27-28)	MCQs (1-9) (Home Work) Short Questions (1-2) Understanding the Concept (3)
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)	MCQs (1-2,5-13) (Home Work) Short Questions (2,4) Understanding the Concept (3,5,7)
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)	MCQs (1.3-15) (Home Work) Short Questions (2) Understanding the Concept (7,11)
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)	MCQs (1-15) (Home Work) Short Questions (1-2) Understanding the Concept (2,6)
6	Enzymes	Enzyme Introduction (107-108) Characteristics of Enzymes (108-109)	MCQs (1-6) (Home Work) Short Questions (1)

		Factors Affecting Rate of Enzyme Action (109-111) Mechanism Of Enzyme Action (111-112)	Understanding the Concept (2,7)
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)	MCQs (1-2,4-5,6-9) (Home Work) Short Questions (1) Understanding the Concept (2,7-8)
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)	MCQs (1,2,4-11,13-15) (Home Work) Short Questions (3-5) Understanding the Concept (3,6,11)
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)	MCQs (4-17) (Home Work) Short Questions (5,8) Understanding the Concept (4)

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(9th)

Microsoft Windows

- Creating New Folder
- How to Search for a File or Folder
- To Cut/Copy and Paste a File Folder from one location to another
- How to Use Recycle Bin
- To Display the My Recent Document Folder on Start Menu and Open Recently used document
- How to Open and Make Selections from a Menu
- How to Access Control Panel and Set the Time & Date
- How to Arrange and Remove Icons
- How to Add or Remove Programs and Windows Components
- How to adjust resolution, changing desktop background, color scheme and screen saver.

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

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
- Exercise questions (1,2,3,4,5,6)

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)
- Exercise question no (1,2,3,4,6,7,9,10,12)

Chapter 5 Microorganism and Diseases

- Diseases and their causes
- Bacterial diseases
- Viral diseases
- Cancer, Malaria
- Spreading of Germs
- Protection of germs and diseases
- Smoking, Bad Habit
- Exercise question no (1,2,3,4,5,6,7)

Chapter 7 Energy

- Energy, Types of energy
- Inter conversion of energy
- Renewable energy resources
- Exercise questions (1,2,3,4,5,6,8,9,10,11)

Chapter 9 Basic Electronics

- Semiconductor
- Semi conductor diode
- Radio waves
- Radio
- Computer
- Micro processor
- Exercise questions(1,2,3,4,5,6,7,8,12,13,14,15)

اردو منتخب سلیبس جماعت دہم کے لیے

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

عنوانات	جماعت کا کام	گھر کا کام
حمد (نظم)	مشقی سوال نمبر 1 (جز، الف ب ج د) مشقی سوال نمبر 6، غزل، نظم، نظم اور غزل میں فرق (صفحہ نمبر 5، 6)	مشقی سوال نمبر 2، 3، 5، 7، 11،
نعت (نظم)	مشقی سوال نمبر 1 (جز، الف ب ج د) مشقی سوال نمبر 5، 6	مشقی سوال نمبر 3، 7،
نظریہ پاکستان	مشقی سوال نمبر 1 (تمام اجزا)، مشقی سوال نمبر 2	مشقی سوال نمبر 4، 5،
مجھے میرے دوستوں سے بچاؤ	مشقی سوال نمبر 1 (جز، الف ب ج د)، مشقی سوال نمبر 5، 7، جملہ اسمیہ اور جملہ فعلیہ کی ترکیب نحوی، افسانہ (صفحہ نمبر 57، 58)	مشقی سوال نمبر 2، 3، 4،
ملع	مشقی سوال نمبر 1 (جز، الف ب ج د) مشقی سوال نمبر 3، 5، 7،	مشقی سوال نمبر 2، 4،
چغل خور	مشقی سوال نمبر 1 (جز، الف ب ج د) مشقی سوال نمبر 7، 2، (جمہ معترضہ) صفحہ نمبر 77	مشقی سوال نمبر 3، 4، 5،
نام دیو مالی	مشقی سوال نمبر 1 (الف ب ج د) مشقی سوال نمبر 6، 7، 8، مبتدا اور خبر میں تقطیع کرنا (صفحہ نمبر 86)	مشقی سوال نمبر 2،
علی بخش	مشقی سوال نمبر 1 (جز الف ب ج د) مشقی سوال نمبر 3، 4، 9، 10،	مشقی سوال نمبر 5، 6،
میدان کر بلا میں گرمی کی شدت	مشقی سوال نمبر 1 (تمام اجزا)، مشقی سوال نمبر 4، 7، 9، استعارہ، ارکان استعارہ، مجاز مرسل (صفحہ نمبر 120، 121)	مشقی سوال نمبر 6، 2،
فاطمہ بنت عبد اللہ	مشقی سوال نمبر 1 (تمام اجزا)، مشقی سوال نمبر 5، 7،	مشقی سوال نمبر 6، 3،
حسرت موہانی کی غزل	مشقی سوال نمبر 1 (تمام اجزا)، مطلع اور مقطع (صفحہ نمبر 150)	مشقی سوال نمبر 2، 3،
جگر مراد آبادی کی غزل	مشقی سوال نمبر 1 (جز الف ب ج د) مشقی سوال نمبر 2، قافیہ اور ردیف (صفحہ نمبر 154، 155)	مشقی سوال نمبر 5، 4، 3،

قواعد و انشا،

برطابق کتاب ”اردو قواعد و انشا نہم دہم، پنجاب ٹیکسٹ بک بورڈ“

مضمون نگاری (زم زم، علامہ اقبال، قائد اعظم، یوم آزادی، محنت کی برکتیں، ماں باپ کے ساتھ سلوک، شہری اور دیہاتی زندگی، وقت کی پابندی)
کہانیاں (جس کا کام اسی کو سا جے، سچ کی برکت، جھوٹ کی سزا، قوم کی خاطر ایثار، اتفاق کی برکت)

ENGLISH SSC-II

Unit #	Title	Contents /Exercises to be covered
1	Hazrat Muhammad (PBUH) an Embodiment of Justice	- Glossary & Vocabulary (Ex-A&B) - Reading Comprehension (A &C) - Grammar: Concrete& Abstract Noun (Exercise A, B & C) - Homework: Writing Skills Exercise(A&B)
3	Try Again (Poem)	- Theme of the poem - Stanza Comprehension - Reading Comprehension Exercise-A - Figures of Speech (Simile & Alliteration) - Grammar: Personal Pronoun & Degrees of Adjectives (Exercise A, B, C & D) - Homework: Writing Skills (Exercise-A)
4	First Aid	- Glossary Exercise –A, B & C - Reading Comprehension Exercise-A &B - Grammar (Adverb, Adverb Phrase, Infinitive & gerund) Exercise –A, B, C& D - Homework: Writing Skills “How to take care of cuts and scraps?”
5	The Rain (Poem)	- Theme - Stanza Comprehension - Figures of Speech (Metaphor & Personification) - Vocabulary Exercise A, B, C& D - Reading Comprehension Exercise-A&B - Grammar (Transitive & Intransitive Verbs) Exercise-A
9	Selecting the Right Career	- Glossary, Vocabulary (Exercise A, B & C) - Reading Comprehension (Exercise-A) - Grammar (Noun Clause) - Homework: Writing Skills (Exercise-C)
10	The World without Books	- Reading Comprehension Exercise-A - Grammar (Relative Pronoun & Adjective Clause) Exercise (A & B) - Homework: Glossary & Vocabulary
13	Faithfulness	- Reading Comprehension (Page -154) - Grammar (Conditional Sentences), Compound & Complex Sentences - 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,1st Edition March, 2020)
- vi. Prepositional /Phrasal Sr#1-60 (Pages 159 –161,English Grammar and Composition, PTB, Lahore,1st Edition March, 2020)
- vii. Comprehension Paragraphs Verbs (Exercises 1-15 pages 38-45(from English Grammar and Composition, PTB, Lahore,1st 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,1st Edition March, 2020.

MATHEMATICS SSC-II

Science Group

CHAPTER #1

Ex: 1.1 Q1 (i, iii), Q2 (i, iv, v), Q3 (i, vi, viii)
Ex: 1.3 Q2, Q7, Q9, Q10, Q14

Ex: 1.2 Q1 (iv, vii)
Ex: 1.4 Q3, Q6, Q11

CHAPTER #2

Ex: 2.1 Q1 (ii) Q2 (iv) Q3, Q5
Ex: 2.3 Q1 (i, ii), Q2 (I), Q3 (i), Q4 (ii), Q5 (ii)
Ex: 2.6 Q1 (iii), Q2 (ii), Q3 (ii), Q5 (ii)
Ex: 2.8 Q2, Q5, Q7, Q10

Ex: 2.2 Q1, Q2 (iv, v, vii) Q3
Ex: 2.5 Q1 (e), Q2 (d), Q3 (a)
Ex: 2.7 Q1, Q3, Q5, Q9, Q13

CHAPTER #3

Ex: 3.1, Q4, Q6, Q11 (iii, v)
Ex: 3.3 Q1 (iii), Q 2 (iv), Q 3 (iv), Q4 (iii, iv)
Ex: 3.5 Q2, Q6
Ex: 3.7 Q6, Q7, Q9

Ex: 3.2 Q1 (iii), Q3, Q8, Q13
Ex: 3.4 Q1 (i), Q2 (ii, v, vi, viii)
Ex: 3.6 Q1 (ii, iii, vii), Q2 (whole)

CHAPTER #4

Ex: 4.1 Q2, Q7
Ex: 4.3 Q1, Q6, Q8

Ex: 4.2 Q2, Q4, Q8
Ex: 4.4 Q1, Q3

CHAPTER #5

Ex: 5.1 Q4 (iii), Q5
Ex: 5.3 Q3, Q4 (iii, i, v)
Ex: 5.5 Q1, Q5 (iii, iv)

Ex: 5.2 Q3
Ex: 5.4 Q1, Q3 (ii, iii)

CHAPTER #6

Ex: 6.1, Q5
Ex: 6.3 Q4, Q5 a (ii), 5b, Q6

Ex: 6.2 Q3 (i), Q5, Q9, Q11

CHAPTER #7

Ex: 7.1 Q4 (ii, iv, vii), Q5 (iii, iv, viii)
Ex: 7.4 Q7, Q10, Q11, Q16, Q20, Q24

Ex: 7.2 Q1 (ii), Q2 (i), Q3 (ii), Q12, Q13
Ex 7.5 Q1, Q3, Q4, Q8, Q9, Q10

CHAPTER #8: Theorem 1, 2

CHAPTER #9: Theorem 4

CHAPTER #10: Theorem 3

CHAPTER #11: Theorem 4

CHAPTER #12: Theorem 1

CHAPTER #13

Ex 13.1 Q1, Q4, Ex 13.2 Q2. Q3. Q4, Ex 13.3 Q6, Q7, Q8, Q9

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.

GENERAL MATHEMATICS SSC-II

CLASS WORK	HOME WORK
UNIT-1 ALGEBRAIC FORMULAS AND APPLICATIONS EXERCISE 1.1, Q# 1, 5, 9, 13, 14, 15, 19, 24. EXERCISE 1.2, Q# 2, 3, 6, 7, 10, 12. EXERCISE 1.3, Q# 3 (i), (v), 4, 6, 9 (ii).	EXERCISE 1.1, Q# 2, 8, 10, 28. EXERCISE 1.2, Q# 1, 11, 18, 21. EXERCISE 1.3, Q# 3 (ii), (iii), 5, 9 (i). REVIEW Ex.1, Q# 1.
UNIT-2 FACTORIZATION EXERCISE 2.1, Q# 1, 2, 9, 15. EXERCISE 2.2, Q# 1, 2, 8. EXERCISE 2.3, Q# 1, 6, 11. EXERCISE 2.4, Q# 1, 2, 9, 20. EXERCISE 2.5, Q# 6, 10, 19, 20.	EXERCISE 2.1, Q# 5, 11, 16. EXERCISE 2.2, Q# 3, 9. EXERCISE 2.3, Q# 2, 14. EXERCISE 2.4, Q# 6, 19. EXERCISE 2.5, Q# 7, 18. REVIEW Ex.1, Q# 1
UNIT-3 ALGEBRAIC MANIPULATION EXERCISE 3.1, Q# 3, 7, 10. EXERCISE 3.2, Q# 1, 3. EXERCISE 3.3, Q# 1, 6, 8. EXERCISE 3.4, Q# 1, 7, 9, 11, 13. EXERCISE 3.5, Q# 2, 6, 8. EXERCISE 3.6, Q# 1, 2, 6, 12.	EXERCISE 3.1, Q# 8, 13, 15. EXERCISE 3.2, Q# 6, 7. EXERCISE 3.3, Q# 2, 14. EXERCISE 3.4, Q# 10, 12. EXERCISE 3.5, Q# 5, 7, 12. EXERCISE 3.6, Q# 3, 9. REVIEW Ex.1, Q# 1
UNIT-4 LINEAR EQUATIONS AND INEQUALITIES EXERCISE 4.1, Q# 2, 7, 10, 12, 19. EXERCISE 4.2, Q# 1, 2, 7, 10, 15.	EXERCISE 4.1, Q# 3, 4, 8, 13, 20. EXERCISE 4.2, Q# 5, 9, 16. REVIEW Ex.1, Q#1
UNIT-5: QUADRATIC EQUATIONS EXERCISE 5.1, Q# 1, 3, 9, 11, 14, 18, 22. EXERCISE 5.2, Q# 1, 2, 7, 12. EXERCISE 5.3, Q# 1, 7.	EXERCISE 5.1, Q# 2, 12, 15, 19, 23. EXERCISE 5.2, Q# 3, 9. EXERCISE 5.3, Q# 2, 8. REVIEW Ex.1, Q#1.
UNIT-6: MATRICES AND DETERMINANTS EXERCISE 6.1, Q# 4. EXERCISE 6.2, Q# 1, 2, 3, 6. EXERCISE 6.3, Q# 1 (iv), (v), 2, 4, 11. EXERCISE 6.4, Q# 1, 9, 12, 15. EXERCISE 6.5, Q# 1(ii), (iii), 2(i), 3(i), (ii), 4 EXERCISE 6.6, Q# 2(i), (iv), 4(i), (vi).	EXERCISE 6.3, Q# 1 (vi), 6, 8. EXERCISE 6.4, Q# 3, 7, 13. EXERCISE 6.5, Q# 2 (ii), 3 (vi). EXERCISE 6.6, Q# 2 (ii), 4 (ii). REVIEW Ex.1, Q# 1

UNIT-7: FUNDAMENTALS OF GEOMETRY Exercise 7.1, Q#2, 4, 7 (ii), (v) Exercise 7.2, Q# 1 Exercise 7.3, Q # 1,2,3,4 Exercise 7.4, Q # 1,5 Exercise 7.5, Q # 1 Exercise 7.6, Q # 1	Exercise: 7.1, Q # 3, 7 (i), (vi). Exercise: 7.3 Q # 5. REVIEW Ex.1, #1.
UNIT-8: PRACTICAL GEOMETRY EXERCISE 8.1, Q# 1, 2, 3, 7, 11, 23, 24, 26.	EXERCISE 8.1, Q# 8, 9, 13, 20, 25. REVIEW Ex.1, Q #1
UNIT-9: AREAS AND VOLUMES EXERCISE 9.1, Q# 1(i), 4, 7. EXERCISE 9.2, Q# 1, 2, 3, 7(i), 10 (i), 12, 16. EXERCISE 9.3, Q# 1, 2, 4, 5, 6.	EXERCISE 9.1, Q# 1(ii), (iii), 5, 8. EXERCISE 9.2, Q# 7 (ii), 10 (ii), (iii),14, 18. EXERCISE 9.3, Q# 3. REVIEW Ex.1, Q# 1
UNIT-10: INTRODUCTION OF COORDINATE GEOMETRY EXERCISE 10.1, Q# 1(i), (ii), (viii), (ix), (x), 2(i), (ii), 4, 6, 7, 10, 11.	EXERCISE 10.1, Q# 2 (iii), 12. REVIEW Ex.1, Q# 1.

اسلاميات لازمی جماعت دہم

الجزء الاول:

من حدی القرآن

سورة الاحزاب (آیات 1 تا 34) (صفحة 27 تا 35)

الدرس الرابع، الف
کلاس درک
ترجمہ آیات (1 تا 8)
سوال نمبر 1، 2
ہوم ورک: الکلمات والتراکیب (یا دکرنا)
سوال نمبر 3

الدرس الرابع (ب)
کلاس درک:
ترجمہ آیات 9 تا 20
سوال نمبر 1، 2
ہوم ورک: الکلمات والتراکیب (یا دکرنا)
سوال نمبر 3

الدرس الرابع (ج)
کلاس درک
ترجمہ آیات 21 تا 27
سوال نمبر 1
ہوم ورک: الکلمات والتراکیب (یا دکرنا)
سوال نمبر 1

الدرس الخامس (ا)
کلاس درک
ترجمہ آیات 28 تا 34
سوال نمبر 1، 2
ہوم ورک: الکلمات والتراکیب (یا دکرنا)
سوال نمبر 3

سورة الممتحنة (آیات 1، 6) (صفحة 45، 46)

الدرس السابع (ا)
کلاس درک
ترجمہ آیات 1 تا 6
سوال نمبر 1، 2
ہوم ورک: الکلمات والتراکیب (یا دکرنا)
سوال نمبر 3، 4

الجزء الثاني (من هدى الحديث)

ترجمہ احادیث 2011ء

تشریح، عملی زندگی سے تعلق 11 تا 15

الجزء الثالث (موضوعاتی مطالعہ)

- 1- طہارت
کلاس ورک
سوال نمبر 1
ہوم ورک
سوال نمبر 2، 6
- 2- صبر و شکر
کلاس ورک
سوال نمبر 3، 4
ہوم ورک
سوال نمبر 5
- 3- عائلی زندگی
کلاس ورک
سوال نمبر 1، 4
ہوم ورک
سوال نمبر 5
- 4- ہجرت و جہاد
کلاس ورک
سوال نمبر 1
ہوم ورک
سوال نمبر 3
- 5- حقوق العباد
کلاس ورک
سوال نمبر 2
ہوم ورک
سوال نمبر 3، 4

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 Prevez Musharraf with particular emphasis on local self-government, local government plan 2000.

CLASS WORK: Long questions: 2-3-4-7

HOMEWORK: Short questions: 1-4-5-6-7-10

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

CLASS WORK: Long question 1-2-3-5-7-8-12

HOMEWORK: Short questions 1-3-4-5-6-8

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

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

HOMEWORK: Short questions1-3-4-6-9

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

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

HOMEWORK: Short question:2-4-5-7-8

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.

UNIT 10 SIMPLE HARMONIC MOTION

10.1 Mass Attached with spring, Motion of simple Pendulum

10.3 Wave Motion

10.4 Types of mechanical waves

(waves as carrier of energy, Relation between velocity, frequency and wavelength)

Examples 10.1,10.2 (H.W)

Exercise: Review Question:10.1 ,10.6,10.10 (C.W)

Problems: 10.1 -10.5 (H.W)

MCQ's (1-6)

UNIT 11 SOUND

11.1 Sound Waves

11.2 Characteristic of sound (Loudness, pitch, quality, intensity, intensity level)

11.3 Reflection of sound

11.4 Speed of sound

11.7 Audible frequency range

11.8 Ultra sound

Example 11.1,11.2 (H.W)

Exercise:

MCQ's (1-7) are included.

Questions 11.1-11.3,11.8,11.12,11.13

Problems: 11.1-11.5 (H.W)

UNIT 12 GEOMETRICAL OPTICS

All theory topics from 12.1 -12.10

Examples 12.1-12.6 (H.W)

Exercise

MCQ's 1-6

Review Question 12.9,12.15,12.16 and 12.18

Problems: 12.1-12.4, 12.9 -12.12 (H.W)

UNIT 13 ELECTROSTATICS

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 (combination in series and parallel)

EXAMPLES,13.1-13.4 (H.W)

Exercise

MCQ's 1-11

Review Questions' 13.1 -13.3

Problems: 13.1- 13.10 (H.W)

UNIT 14 CURRENT ELECTRICITY

All theory topics from 14.1-14.11

Example: 14.1 -14.8 (H.W)

Exercise:

MCQ's (1-9)

Review Questions:14.2-14.5

Numerical problems 14.1-14.7

UNIT 15 ELECTROMAGNETISM

15.1 Magnetism effects of steady current (Direction of Magnetic field, magnetic field of solenoid)

15.5 electromagnetic induction

15.6 Direction of induced emf, Lenz's law

15.8 Mutual induction

15.9 Transformer

Exercise:

MCQs 1,2,3,7,8,9

Review questions: 15.1, 15.3, 15.7- 15.9

Problems: 15.1-15.3 (H.W)

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 Logic gates

Exercise:

MCQs 1-7

Review Questions: 16.1, 16.7, 16.8

UNIT 18 ATOMIC AND NUCLEAR PHYSICS

18.1-18.9 (all theory topics)

Examples: 18.1-18.4 (H.W)

Exercise

MCQs 1-9

Review Questions: 18.3, 18.5, 18.6, 18.8, 18.12-18.15

Numerical problems: 18.1-18.5

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. Investigate the relationship between force of limiting friction and normal reaction to find the coefficient of sliding friction between a wooden block and horizontal surface.
5. To study the relationship between load and extension (Helical spring) by drawing a graph.
6. 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. Verify Ohm’s law (using wire as conductor).
6. To verify the truth table of OR, AND, NOT, NOR and NAND gates.

CHEMISTRY SSC–II

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

Exercise:

MCQs (I-X)

Short Question/Answer (I-V)

Long Questions: (Q 3, 4, 6, 8)

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

Exercise:

MCQs (I-X)

Short Question/Answer (II, III, IV, V)

Long Questions: (Q 3, 4, 6, 10,11,15)

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, functional group containing C, N, H, Functional group containing double and triple bond

Exercise:

MCQs (I-X)

Short Question/Answer (I-V)

Long Questions: (Q 4, 6, 8, 9, 10, 11 (ab,c),15, 18,19)

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,

Exercise:

MCQs (I-X)

Short Question/Answer (I-V)

Long Questions: (Q 3, 4, 5, 8, 10, 13,17)

Chapter 13: Biochemistry

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

Exercise:

MCQs (II, III, IV, VI, IX, X)

Short Questions: (I, II, IV, VI)

Long Questions: Q3, 7, 9, 11, 15, 16

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

Exercise:

MCQs: (I-X)

Short Question-Answer: (I-V)

Long Questions: (4, 6, 7, 8, 11, 12)

Chapter 15: Environmental Chemistry II

Water

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

Exercise:

MCQs (III, IV, V, VI, VII, VIII)

Q2: Short Question-Answer (I, IV, V, VI)

Long Questions: 3, 5 (a,b,c,d), 10, 11, 12, 14, 21, 25

Chapter 16: Chemical Industries

Topics: Basic metallurgical operation Solvay process (flow sheet), Urea, Importance of fractional distillation of petroleum

Exercise:

MCQs (I, III, VII, VIII, IX, X)

Q2: Short Question-Answer (II, III, IV, V)

Long Questions: 7, 8, 9, 10, 13, 15, 16

CHEMISTRY – SSC LIST OF PRACTICALS

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 cm³ of 0.1M NaOH solution. Major

Prepare 250 cm³ of 0.1M HCl solution. Major

Prepare 100 cm³ of 0.1M NaOH solution from the given 1M solution. Major

Prepare 100 cm³ of 0.01M HCl solution from the given 0.1M solution. Major

Prepare 100 cm³ 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 7. Electrochemistry

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 Na₂CO₃ 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 KMnO₄ test. Minor

Water

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

BIOLOGY SSC-II

Ch. #	Chapter Name	Topics Included	Review Questions
10	Gaseous Exchange	Gaseous Exchange in Plants (page 2-3) Gaseous Exchange in Humans (4-6) The Lungs (6) Mechanism of Breathing (7)	MCQs (1-7, 9-10) (Home Work) Short Questions (1-3) Understanding the concept (2)
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)	MCQs (1-7, 9-10) (Home Work) Short Questions (2) Understanding the concept (1, 4)
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)	MCQs (1-10) (Home Work) Short Questions (2,4, 8) Understanding the concept (2,4,10,11)
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)	MCQs (1, 3-10) (Home Work) Short Questions (1,4) Understanding the Concept (1-2)
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)	MCQs (1-10) (Home Work) Short Questions (3-4) Understanding the Concept (6-7)
15	Inheritance	Introduction to Genetics (94) Chromosome and Genes (94-98) Mendel's Laws of Inheritance (90-101)	MCQs (1-7) (Home Work) Short Questions (1-3) Understanding the Concept (2)
16	Man and His Environment	Components of Ecosystem (114) Biogeochemical Cycles (119-121) Interactions in Ecosystems (122-125)	MCQs (1-2,4-5,7-8) (Home Work) Short Questions (1) Understanding the Concept (2-3)

17	Biotechnology	Introduction to Biotechnology (138) Fermentation (139-140) Genetic Engineering (144-147)	MCQs (2-4) (Home Work) Short Questions (4-5) Understanding the Concept (3)
18	Pharmacology	Medicinal Drugs (150-151) Antibiotics and Vaccines (155-156)	MCQs (1-3,7-8) (Home Work) Short Questions (3) Understanding the Concept (3,5)

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 ameba 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 (reduced chapter)
 - 2.2 Programming environment (**Included**)
 - 2.3 Programming Basics (**Included**)
 - 2.4 Constants and Variables (**Included**)
- 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 (complete chapter)
- 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

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
- Exercise question no (1,2,3,5,6,7)

Chapter 4 Man and Health

- Major components of Food(vitamin)
- Balanced diet
- First Aid
- Exercise question No (1,2,3,5,6,8)

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
- Exercise questions (1,2,3,4,5,8,9,14,15,16)

Chapter 8 Current Electricity

- Electric Current
- Voltage
- Resistance
- Ohm's Law
- Electric circuit
- Direct current (DC) and Alternating current (AC)
- Exercise questions (1,2,3,4,5,6,7,8,9,10,11)

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)
- Exercise Questions (1,2,3,4,5,11,12,13,14,15,16)

Chapter 11 Pakistan's Space and Nuclear Program

- Space Exploration
- Satellites
- Space Shuttle
- Pakistan space program
- Pakistan Nuclear Program (Nuclear Technology, nuclear power Generation)
- Exercise question no (1,2,3,4,7,8,9,10)