



**GOVERNMENT OF SINDH**  
**SCHOOL EDUCATION & LITERACY DEPARTMENT**

Karachi, dated, the 19<sup>th</sup> October, 2020

**NOTIFICATION**

**NO.SO(CURRICULUM)SELD/CONDENSE-SYLLABUS /2020:** In compliance with the decision of Sindh Curriculum Council, and with the approval of Competent Authority i.e Minister for Education & Literacy Department, Government of Sindh, the reduced syllabus for SSC Grades IX-X is hereby notified for the academic year 2020-2021, jointly designed by the Directorate of Curriculum, Assessment & Research (DCAR) Sindh, Directorates of School Education and Boards of Intermediate and Secondary Education under the supervision and guidance of the working group on condensed syllabus:

- I. The condense syllabus of SSC Part-I (grade-IX) (1- English, 2- Sindhi Compulsory 3-Urdu Compulsory 4-Islamiat, 5-Ethics (IX-X) 6- Biology, 7-Computer Science 8- Chemistry, 9- Mathematics and 10- Physics) annexed at Annexure-A-I to X.
- II. The condense syllabus of SSC Part-II (grade-X) (1-English, 2- Asan Sindhi 3-Asan Urdu, 4- Mathematics and 5- Physics) annexed at Annexure-B-I to V.
- III. The Annual Aexamination of SSCPart-I&II, 2021 of the Boards will be conducted from reduced syllabus vide Annexure-A-I to X for SSC Part-I and Annexure-B-I to V for SSC Part-II.

**AHMED BAKHSH NAREJO**  
**SECRETARY TO GOVT. OF SINDH**

**NO.SO(CURRICULUM)SELD/CONDENSE-SYLLABUS /2020:** Karachi, the dated October, 2020

**A Copy is forwarded for information to:**

1. The Principal Secretary to Governor, Sindh Karachi
2. The Principal Secretary to Chief Minister, Sindh Karachi.
3. The Secretary, College Education Department Government of Sindh.
4. The Secretary, Universities & Boards Department, Government of Sindh
5. The Special/Additional Secretary (All) School Education & Literacy, Department, Government of Sindh.
6. The Deputy Secretary (Staff) to Chief Secretary, Sindh, Karachi.
7. The Director General Colleges, Sindh, Karachi.
8. Members (All) Steering Committee on Education.
9. The Chairmen (All) Board of Intermediate & Secondary Education with the request for strict implementation.
10. The Director General Inspection & Registration of Private Educational Institutions, Sindh, Karachi with the direction to circulate and ensure strict implementation in the institutions.
11. The Director School Education (P/ES&HS) all, with the direction to circulate and ensure strict implementation in the Schools.
12. The Director, Curriculum, Assessment & Research, Jamshoro.
13. The Additional Director, Teachers Training Institutions, Sindh, Hyderabad.
14. The PS to Minister for Education & Literacy, Sindh.
15. The PS to Secretary School Education & Literacy Department Government of Sindh.
16. The Website.
17. The Office file



SECTION OFFICE (CURRICULUM)



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**SSC PART-I**  
**GRADE - IX**  
**CONDENSED COURSE OF ACADEMIC YEAR 2020-21**

ANNEXURE-A-I

**ENGLISH -IX**

Unit	Unit Name
1.1	<b>Reading Comprehension</b> The Last Sermon of the Holy Prophet (S.A.W) (Exercises 1,2,3,4,6 and 8)
1.2	<b>Listening &amp; Speaking.</b> Sharing Information and Ideas (All Exercises)
1.3	<b>Language Practice</b> Conditional Sentences(All Exercises)
1.4	<b>Writing</b> Descriptive Essay (All Exercises) Formal Letters (All Exercises)
2.1	<b>Reading Comprehension</b> Shah Abdul Latif (Exercise: 1,2,3,5 and 6)
2.2	<b>Listening &amp; Speaking</b> Asking and Answering Questions of a Social Nature (All Exercises)
2.3	<b>Language practice</b> Suffixes (All Exercises)
2.4	<b>Writing</b> Narrative Essay (All Exercises) Summary Writing (All Exercises)
3.3	<b>Language practice</b> Use of article 'a, an and the' (All Exercises)
3.4	<b>Writing</b> Informal Emails(All Exercises) Compare and Contrast Essay (All Exercises)
4.1	<b>Reading Comprehension</b> The Great Visionaries (Exercise: 3,5,6,7,8 and 9)
4.2	<b>Listening &amp; Speaking</b> Asking and Responding to Questions of Academic Nature (All Exercises)
4.3	<b>Language Practice</b> Change the Voice (All Exercises) Prefixes (All Exercises)
4.4	<b>Writing</b> Paraphrasing a Poem (All Exercises) Application(All Exercises)
5.1	<b>Reading Comprehension</b> Health Problems Caused by Mosquitoes (Exercises:2,3,4,5,6 and 7)
5.2	<b>Listening and Speaking</b> Express Satisfaction/ Dissatisfaction (fully and partially) Politely (All Exercises)
5.3	<b>Language Practice</b>



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	Narration (All Exercises)
6.1	<b>Reading Comprehension</b> The Role of Women in Pakistan's Creation and Development. (Exercises:1,2,3,5 and 7)
6.3	<b>Language Practice</b> Synonyms(All Exercises)      Use of Since and for (All Exercises)
7.3	<b>Language Practice</b> Translation (All Exercises)
8.3	<b>Language practice</b> Degrees of Adverbs. (All Exercises)
8.4	<b>Writing</b> Summarizing a Poem (All Exercises)

**Guidelines for Effective Teaching:**

- Home tasks may be assigned to engage students for practice.
- Teaching & learning may be contextualized keeping in view the environment and resources.
- Development of Charts, classroom presentation, individual performances may be encouraged.
- A balanced test may be developed in accordance with target language. Model Test Paper for assessment of students is given in the textbook.
- Activities/Exercise Questions at the end of unit may be used for assessing the students' progress according to condensed course during formative or summative assessment.

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**SINDHI (COMPULSORY)- IX**

سبق نمبر	سبق
01	حضور اڪرم صلي الله عليه وآله وسلم جن جا اخلاق مبارڪ (خلاصو، مشق ۽ لاڳاپيل گرامر)
02	حضرت امام حسين عليه السلام (خلاصو، مشق ۽ لاڳاپيل گرامر)
21	شاه عبداللطيف ڀٽائي رحمة الله عليه (حوالو، سمجھائي)
05	گنجي ٽڪر جو سير (خلاصو، مشق ۽ لاڳاپيل گرامر)
22	سچل سرمست رحمة الله عليه (پهريون، ٻيو ۽ پنجون بيت) (حوالو، سمجھائي)
10	جمشيد نسروانجي هڪ نيڪ دل انسان. (خلاصو، مشق ۽ لاڳاپيل گرامر)
21	سامي (پهريون ۽ ٻيو بيت) (حوالو، سمجھائي)
	ٻئي معنيٰ وارا لفظ، تجنيس حرفي، تجنيس ناقص ۽ تجنيس تام ۾ فرق سمجھائڻ
24	سيد ثابت علي شاهه (حوالا ۽ سمجھائي)
	خط ۽ درخواست
15	گورڪ هل اسٽيشن (خلاصو، مشق ۽ لاڳاپيل گرامر)
13	سنڌي ادب جي مختصر تاريخ (خلاصو، مشق ۽ لاڳاپيل گرامر)
	مضمون
	علم بيان جي بنيادي اصطلاحن (تشبيهه، استعاري، كنايي، مجاز مرسل ۾ فرق) شعري اصطلاحن (شعر، مصرع، مطلع، مقطع، قافيو ۽ رديف)
29	ڪشچند بيوس (پهريون، ٻيو ۽ ڇهون بند) (حوالو، سمجھائي)
20	سورٺ ۽ آءِ ڏياچ (خلاصو، مشق ۽ لاڳاپيل گرامر)
34	مخدوم محمد زمان طالب الموليٰ (حوالو ۽ سمجھائي)
	بيھڪ جون نشانين، اشتقاق ڪرڻ، محاورا، فقرات وغيره
	ورجاءُ

استادن لاءِ هدايتون: استاد پنهنجي مهارت جي بنياد تي تجويز ڪيل ڪورس کي پڙهائي ۽ روزانو جي بنياد تي جائزو به وٺندو رهي ته جيئن بهتر نتيجا حاصل ڪري سگهجن.

استاد ٻار کي گهرو ڪم پڻ ڏئي، جيئن شاگرد پنهنجي صلاحيتن کي اجاگر ڪري سگهن.

تجويز ڪيل نثر، نظم ۽ گرامر مان امتحان ورتو وڃي. خاص طور تي ڪجهه نظمن جا شعر وقت جي گهٽتائي سبب گهٽ ڪيا ويا آهن، امتحان لاءِ تجويز ڪيل شعرن مان چونڊ ڪئي وڃي.



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**URDU (COMPULSORY)- IX**

نمبر شمار	عنوان/ مضامین	صفحہ نمبر
۱.	اخلاق نبوی صلی اللہ علیہ وآلہ و سلم	از : شبلی نعمانی
۲.	رشتہ ناتا	از : حکیم محمد سعید
۳.	نظریہ پاکستان	از : ڈاکٹر غلام مصطفیٰ خان
	افسانوی ادب	
۴.	اصغری نے لڑکیوں کا مکتب بٹھایا	از : ڈپٹی نذیر احمد دہلوی
۵.	بوڑھی کاکی	از : منشی پریم چند
	ڈراما/ مکالمہ	
۶.	شہید	از : مرزا ادیب
	خاکہ/ آپ بیتی	
۷.	ڈسٹرکٹ بورڈ کی ڈسپنسیری	از : قدرت اللہ شہاب
	طنز و مزاح	
۸.	اونہ	از : مرزا فرحت اللہ بیگ
	مکاتیب	
۹.	بہ نام ہر گویاں تفتہ	از : غالب
۱۰.	بہ نام میر مہدی مجروح	از : غالب
	حصہ نظم (عنوان)	شعرا
۱۱.	حمد باری تعالیٰ	از : مولانا اسماعیل میرٹھی
۱۲.	نعت	از : امیر مینائی
۱۳.	برسات کا تماشا	از : نظیر اکبر آبادی
۱۴.	دنیا سے اسلام	از : علامہ محمد اقبال
۱۵.	گرمی کی شدت	از : میر انیس
۱۶.	جیوے جیوے پاکستان	از : جمیل الدین عالی
	غزلیات	
۱۷.	فقیرانہ آنے صدا کر چلے	میر تقی میر
۱۸.	ہر ایک بات پہ کہتے ہو تم کہ "تو کیا ہے"	از : مرزا غالب

**جماعت وار تلخیصی کورس (نصاب اُردو کے مطابق)**  
**اُردو لازمی برائے نویں دسویں جماعت**



زبان شناسی/ قواعد

- روزمرہ اور محاورہ کے لحاظ سے غلط فقرات کی درستی
- مکالمہ/ روداد نویسی
- کہانی لکھنا
- مضمون
- خط (رسمی/ غیر رسمی)
- ہئیت کے لحاظ سے غزل اور نظم کے فرق کو سمجھنا
- اپنے خیالات کو مختلف اندازِ بیاں یا محضر کے لحاظ سے تحریر کر سکرنا

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**ISLAMIAT GRADE - IX**

CONDENSED CONTENT	CHAPTER
حصہ اول : قرآن مجید (بامحاورہ ترجمہ) (سورة الانفال)	حصہ اول قرآن مجید (بامحاورہ ترجمہ) سورة الانفال
الجزء الاول من هدى القرآن الكريم	
الدرس الاول-( الف ) ( سورة الانفال - آيات 1 - 10 )	
الدرس الاول-( ب ) ( سورة الانفال-آيات 11 - 19 )	
الدرس الاول-( ج ) ( سورة الانفال آيات 20 - 28 )	
الدرس الثاني-( الف ) ( سورة الانفال -آيات - 29 - 37 )	
الدرس الثاني-( ب ) ( سورة الانفال - آيات 38 - 44 )	
الدرس الثاني-( ج ) ( سورة الانفال - آيات - 45 - 48 )	
الدرس الثاني-( د ) ( سورة الانفال - آيات 49 - 58 )	
الدرس الثالث-( الف ) ( سورة الانفال - آيات - 59 - 64 )	
الدرس الثالث-( ب ) ( سورة الانفال - آيات - 65 - 69 )	
الدرس الثالث-( ج ) ( سورة الانفال - آيات - 70 - 75 )	
احادیث مبارکہ ( من هدى الحديث )	حصہ دوم احادیث مبارکہ
دس (10) احادیث عربی متن بمع ترجمہ و تشریح	
1. افضل الاعمال لاله الا الله وفضل الدعاء الاستغفار	
2. طلب العلم فريضة على كل مسلم	
4. من صلى على مرة فتح الله له بابا من العافية	
6. من احب الله وابغض الله واعطى الله ومنع الله فقد استكمل الايمان	
7. ليس منا من لم يرحم صغيرنا ولم يوقر كبيرنا	
8. الراشي والمرتشى فى النار	
10. ان اكمل المؤمنين ايمانا احسنهم خلقا	
11. الصلوة عماد الدين ومن اقامها فقد اقام الدين ومن هدمها فقد هدم الدين	
19. كلکم راع وكلکم مسئول عن رعيته	
20. خير الناس من ينفع الناس	
1 : قرآن مجید، تعارف، حفاظت، فضائل	حصہ سوم موضوعاتی مطالعہ
2: اللہ تعالیٰ اور اس کے رسول حضرت محمد رسول اللہ خاتم النبیین صلی اللہ علیہ وعلیٰ آلہ واصحابہ وسلم کی محبت و اطاعت	
3: علم کی فرضیت و فضیلت	



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## ہدایات برائے اساتذہ (اسلامیات)

- سبق پڑھانے سے پہلے سبق کا خلاصہ بیان کریں تاکہ سبق کے مقاصد کا حصول ممکن ہو۔
- قرآنی آیات کا ترجمہ استاد پہلے خود کرے۔
- سبق پڑھاتے ہوئے، الکلمات والتراکیب، کا ترجمہ اور تشریح ضرور کرے۔
- مختلف طلبہ سے باری باری قرآنی آیات کا ترجمہ کروایا جائے اور ہر پیراگراف کا مفہوم مختلف طلبہ سے زبانی پوچھا جائے۔ تاکہ طلبہ کو پورا سبق ذہن نشین ہو جائے اور وہ مشق از خود حل کریں۔
- تحقیق کی سرگرمی کے ذریعے سے طلبہ میں تلاش و جستجو کی عادت پیدا کرنے کی کوشش کرے۔
- تدریس کے دوران آسان سے مشکل اور معلوم سے نامعلوم کی طرف سفر کرنے کے اصول کو اپنایا جائے۔
- دوران تدریس تقریری طریقہ۔ ترجمے والا طریقہ۔ مباحثی طریقہ اور تفویضی طریقہ اختیار کیا جائے۔ نیز مزید طریقہائے تدریس بھی استعمال کیے جاسکتے ہیں۔

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**ETHICS (for Non-Muslims) Grade IX-X**

Condensed Content	Chapter No:
سوڀارو پاڪستان (نظم)	1
علم اخلاق	2
الله تعاليٰ سڀني خوبين جو مالڪ	3
انساني ۽ اخلاقي قدر	4
بين جي جان، مال ۽ عزت جو احترام	7
منظم ورتاءُ	12
رواداري	17
حضرت موسيٰ عليه السلام	21
حضرت عيسيٰ عليه السلام	22
حضرت محمد رسول الله خاتم النبيين صلي الله عليه وآله و اصحابه وسلم	23
مهاتما گوتم ٻڌ	24
زرتشت	25
شري ڪرشن جي	26
گرو نانڪ	27
حق ۽ فرض	29
سماجي ادارا	30

**Guide line for teacher for effective teaching:**

1. استاد کي گهرجي ته سبق پڙهائڻ يا تدريسي عمل کان پهرين سبق جو خلاصو بيان ڪري ته جيئن پڙهائڻ جو مقصد حاصل ٿي سگهي.
2. سبق پڙهائڻ وقت شاگردن جو ڌيان عملي طور شامل هئڻ گهرجي.
3. سبق پڙهائڻ وقت عملي سرگرمين جهڙوڪ سوال ڪرڻ، يا تجسس ڀري ڄاڻ حاصل ڪرڻ جي جستجو ۽ عادت پيدا ڪرڻ لاءِ شاگرد کي همٿائڻ گهرجي.
4. سبق جي تدريس کان پوءِ شاگردن کان سبق بابت سوال ڪرڻ گهرجن ته جيئن سبق جو مقصد درست انداز ۾ سمجهي سگهن.
5. تدريس جو طريقو سولي کان سولو اختيار ڪيو وڃي.
6. پڙهائڻ ۽ سيکارڻ وقت عملي، بياني، بحث ۽ مباحثو ۽ تحريري وغيره طريقا استعمال ۾ آندا وڃن.



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**BIOLOGY - IX**

Chapter	Topic(s)
1. Introduction to Biology	1. Definition of Biology 2. Division & Branches of Biology 3. Relationship of Biology with other Sciences 4. Quran Instructs to reveal the study of life 5. The level of organization
2. Solving a Biological Problems	1. Biological Methods/Scientific Problem <ul style="list-style-type: none"> <li>✓ Observation</li> <li>✓ Hypotheses</li> <li>✓ Deductions</li> <li>✓ Experiments</li> <li>✓ Result</li> <li>✓ Theory, Law and Principle</li> </ul>
3. Biodiversity	1. Definition and Introduction of Biodiversity 2. Aims & Principles of Classification 3. The Five Kingdoms Classification 4. Binomial Nomenclature 5. Conservation of Biodiversity
4. Cells and Tissues	1. Microscope and Emergence of Cell Theory 2. Cellular Structures and Functions 3. Difference in prokaryotic and eukaryotic cells 4. Diffusion 5. Osmosis 6. Exocytosis 7. Endocytosis 8. Animal tissues 9. Plant tissues
5. Cell Cycle	1. Chromosomes Structures and Function 2. Mitosis 3. Necrosis and Apoptosis 4. Meiosis
6. Enzymes	1. Definition and Characteristics of Enzymes
7. Bioenergetics	1. Introduction and Role of ATP 2. Photosynthesis 3. Respiration 4. Aerobic Respiration, Anaerobic Respiration.



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8. Nutrition	1. Introduction of Nutrition 2. Heterotrophic Nutrition 3. Digestion in Man
9. Transport	1. Transport in Plants 2. Transpiration and its Significance 3. Transport in Animals 4. Transport in Man 5. Blood Disorders 6. Human Heart

**Guide Lines for teachers for effective teaching:**

1. Locate, select, organize and present relevant information from variety of sources.
2. Try to develop relationship among the remaining topics.
3. Guide students to understand scientific concepts & Terminology.
4. Use different teaching strategies to cover given topics in limited time.
5. Ensure that the students understand the concept(s) and processes.
6. Use appropriate Tools and techniques for teaching in Biology.

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**COMPUTER SCIENCE – IX(New Textbook)**

Chapter/ Theme	Topic(s)
1. Fundamentals of Computer	<ul style="list-style-type: none"> <li>• Introduction to Computer</li> <li>• Generations of Computer</li> <li>• Classification of Computer</li> <li>• Describe Computer Hardware (Full)</li> <li>• Basic Operations of a Computer</li> <li>• Computer Software (System Software, Application Software)</li> </ul>
2. Fundamentals of Operating System	<ul style="list-style-type: none"> <li>• Introduction of Operating System</li> <li>• Functions of Operating System</li> </ul>
3. Office Automation	<ul style="list-style-type: none"> <li>• MS Word</li> <li>• Page Layout Tab</li> <li>• Page Setup Group</li> <li>• Page Background Group</li> <li>• Paragraph Group</li> <li>• Arrange Group</li> <li>• Typing in Urdu and Sindhi Language</li> <li>• MS EXCEL</li> <li>• Ms Excel User Interface</li> <li>• Formulas</li> <li>• Charts</li> </ul>
4. Data Communication and Computer Networks	<ul style="list-style-type: none"> <li>• Basic Terminologies of Data Communication</li> <li>• Components of Communication System</li> <li>• Properties of Good Communication</li> <li>• Basics of Computer Network</li> <li>• Fundamental of Topologies</li> <li>• Difference between Physical Address and Logical Address</li> </ul>
5. Computer Security and Ethics	<ul style="list-style-type: none"> <li>• Importance of Computer Security</li> <li>• Cyber Crime</li> <li>• Computer Crime in Real Life (Hacking, Credit and Debit Card Scam)</li> </ul>
6. Web Development	<ul style="list-style-type: none"> <li>• Basic Terminology of Web Development</li> <li>• Definition of Terms</li> <li>• Introduction to HTML</li> <li>• Steps Involved in creating Web Page in HTML</li> <li>• HTML Tags</li> <li>• Designing and Formatting</li> </ul>
7. Introduction to Database System	<ul style="list-style-type: none"> <li>• Database</li> <li>• Database Management System (DBMS)</li> <li>• Basic Components of DBMS</li> <li>• Steps for Creating Table Using Design View</li> </ul>



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**CHEMISTRY - IX**

Chapter	Chapter Name	Topics
01	Fundamentals of Chemistry	1.1 What is Chemistry (Definition and its Importance) 1.4 Branches of Chemistry
02	Chemical Combination (Complete Chapter with Numerical)	2.1 Laws of Chemical Combination 2.2 Atomic mass (only Subtopics 2.2.2, 2.2.3 and 2.2.4) 2.3 The Mole (problem) 2.4 Chemical reaction or Chemical Change (Only Subtopics 2.4.1, 2.4.2, 2.4.3, 2.4.4 and 2.4.5)
03	Atomic Structure	3.3 Rutherford's Atomic Model 3.4 Atomic Number (Z) and Mass Number (A) (Only Subtopics 3.4.1) 3.5 Electronic Configuration based on Bohr's Model
04	Periodicity of Elements	4.1 The Search for a Classification (Only sub topic 4.1.5, 4.1.6 and 4.1.7) 4.2 Some Periodic Properties of Atoms
05	Chemical Bonding	5.1 Introduction 5.2 Formation of Chemical Bonds 5.3 Types of Chemical Bonds 5.4 Ionic Bond or Electrovalent Bond 5.5 Covalent Bond 5.6 Co-Ordinate Covalent Bond or Dative Covalent Bond
06	State of Matter	6.1 Common State of Matter 6.2 Diffusion in Gases and Liquids
07	Solution and Suspension	7.1 Solution 7.2 Factors Affecting Solubility 7.5 Strengths of a Solution
08	Electrochemistry	8.1 Electrolyte & Non-Electrolyte 8.3 Faraday's Law of Electrolysis
09	Acids, Bases and Salts	9.2 Properties of Acids & Bases (Only properties) 9.4 Salts (Only Types of Salts) 9.5.2 The Concept of pH with Numerical
10	Chemical Energetics	Condensed full chapter b/c it will be covered in XI



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**MATHEMATICS- IX**

Unit	Topics & Exercises
Unit 1: Sets	Complete Unit with all Exercises (1.1 to 1.4)
Unit 2: System of Real numbers, exponents and radicals	Complete Unit with all Exercises (2.1 to 2.8)
Unit 3: Logarithms	3.3 Definition of Logarithm    Exercise 3.2 3.6 Common Logarithms    Exercise 3.4 3.7 Antilogarithms    Exercise 3.5 3.8 Applications of Logarithms and Computations (Ex: 3.6)
Unit 4: Algebraic Expressions	4.1 Variables and Consonants 4.2 Coefficient 4.3 Algebraic Expressions 4.4 Kinds of Algebraic Expressions 4.5 Classification of Polynomials    Exercise 4.1 4.6 Order of the Algebraic Expressions Exercise 4.2, 4.4 4.10 Formulae and their Application Exercise 4.6, to 4.10
Unit 5: Factorization, HCF, LCM, Simplification & Square Roots	5.2 Factors of the Expressions Reducible to the Form $a^2 - b^2$ Exercise 5.2 5.3 Factors of the Expressions of the types $ax^2 + bx + c$ Exercise 5.3 5.4 Factors of the Expressions of the $a^3 \pm b^3$ (Exercise 5.4) 5.5 Factors of the Expressions of the types $a^3 + b^3 + c^3 - 3abc$ Exercise 5.5 5.8 Highest Common Factor (Exercise 5.8) 5.9 Least Common Multiple (LCM) of Polynomials Exercise 5.10, Exercise 5.14
Unit 7: Matrices	Complete Unit with all Exercises (7.1 to 7.5)
Unit 11: Fundamental Concepts of Geometry	Complete Unit with Exercise 11.1
Unit 12: Demonstrative Geometry	Theorems on lines and polygons Methods of Proof Theorems 1 to 5 with their related exercises (12.1 to 12.5)



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**PHYSICS- IX**

UNIT	TOPIC
1.Introduction	1. What is PHYSICS? 2. Importance of PHYSICS in daily life.
2.Measurement	1. Physical quantities 2. Measuring instruments (Vernier caliper, micrometer screw gauge, Measuring cylinder)
3.Kinematics of linear motion	1. Rest & motion 2. Types of motion 3. Distance & Displacement 4. Speed 5. Velocity 6. Acceleration 7. Equations of motion
4.Motion & force	1. Force 2. Newtons laws of motion 3. Mass & weight 4. Momentum
5.Vectors	1. Introduction (scalar, vectors) 2. Vector representation 3. Resolutions of vectors
6.Equilibrium	1. Torque or moment of a force 2. Centre of gravity 3. Conditions of equilibrium 4. States of equilibrium
7.Circular motion & Gravitation	1. Uniform circular motion 2. Centripetal acceleration 3. Centripetal force 4. Law of universal Gravitation 5. Mass of Earth 6. Variation of 'g' decreases with altitude
8.Work, Power & Energy	1. Work 2. Power 3. Energy 4. Kinetic energy 5. Gravitational potential Energy



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9.Properties of Matter	<ol style="list-style-type: none"> <li>1. Elasticity</li> <li>2. Hooks law applied to a helical spring</li> <li>3. pressure</li> <li>4. Pascals law</li> <li>5. Application of pascal law (hydraulic lift)</li> <li>6. Archimedes principle</li> <li>7. Analytical treatment of Archimedes principle</li> <li>8. Buoyancy &amp; law of floatation</li> <li>9. Kinetic molecular theory of matter</li> </ol>
10.Heat	<ol style="list-style-type: none"> <li>1. Temperature</li> <li>2. General features of a thermometer</li> <li>3. Mercury in glass thermometer</li> <li>4. Thermal expansion</li> <li>5. Linear thermal expansion of solids</li> <li>6. Volume thermal expansion</li> <li>7. Anomalous expansion of water</li> <li>8. Boyles law</li> <li>9. Charles law</li> <li>10. General gas equation</li> <li>11. Heat capacity</li> <li>12. Specific heat capacity</li> </ol>

**GUIDELINE FOR TEACHER FOR EFFECTIVE TEACHING:**

- The above enlisted topics & their relevant problems are included in the course
- Practical work related to concerned above topics should be performed



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**SSC PART-II**

**GRADE – X**

**ANNEXURE-B-I**

**ENGLISH -X**

Lesson No.	Lesson Name
01	The Voice of God (Poem)
02	The Wise Caliph
04	Little Things (Poem)
7	From a Railway Carriage (Poem)
8	Dignity of Work
10	Beautiful Hands (Poem)
11	A Village Fair
14	The Hand that Rock the Cradle (Poem)
15	An African Village
16	King Bruce and the Spider (Poem)
17	The Inheritors
18	Casabianca (Poem)
19	The Khyber Pass
24	There is a Good Time Coming (Poem)
25	The Customs of Various Regions of Pakistan

**Guidelines for Effective Teaching:**

- Grammar and language activities may be developed according to age and grade level of students. Grammar may be developed as per Board assessment.
- Activities/Exercises Questions at the end of unit may be used for assessing the students' progress according to condensed course during formative or summative assessment. A balanced test may be developed in accordance to target Language.



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**ASAN SINDHI -X**

مضمون/نظم نمبر	عنوان
1	حجة الوداع وارو خطبو (خلاصو، مشقون ۽ لاڳاپيل گرامر)
2	حضرت سلمان فارسي رضي الله تعالى عنه (خلاصو، مشقون ۽ لاڳاپيل گرامر)
19	آهيون الف آسري، محمد مڃوسون (حوالو، سمجهاڻي ۽ لاڳاپيل گرامر)
3	حضرت امام جعفر صادق عليه السلام (خلاصو، مشقون ۽ لاڳاپيل گرامر)
4	قائد اعظم رحمة الله عليه جا ارشاد (مشقون ۽ لاڳاپيل گرامر)
21	دعا (مشق، حوالو، سمجهاڻي، ۽ لاڳاپيل گرامر)
8	هنر دولت آهي (خلاصو، مشقون ۽ لاڳاپيل گرامر)
9	خط (مشقون ۽ لاڳاپيل گرامر)
22	سچل سرمست (حوالو، سمجهاڻي ۽ لاڳاپيل گرامر)
11	اجرڪ (خلاصو، مشقون ۽ لاڳاپيل گرامر)
13	ڪينجهر ڍنڍ (خلاصو، مشقون ۽ لاڳاپيل گرامر)
24	بنايون سُڪ جو ڪو سنسار (حوالو، سمجهاڻي ۽ لاڳاپيل گرامر)
15	رد پچاء (خلاصو، مشقون ۽ لاڳاپيل گرامر)
	خط ۽ درخواست
	مضمون
	بيھڪ جون نشانيون
	لفظن جو ذخيرو
	پنهنجا خيال تحرير ڪرڻ وغيره

استادن لاءِ هدايت: استاد پنهنجي مهارت جي بنياد تي تجويز ڪيل ڪورس کي پڙهائي ۽ روزانو جي بنياد تي جائزو به وٺندو رهي ته جيئن بهتر نتيجا حاصل ڪري سگهجن.  
 استاد ٻار کي گهرو ڪم پڻ ڏئي، جيئن شاگرد پنهنجي صلاحيتن کي اجاگر ڪري سگهن.  
 نوٽ: تجويز ڪيل نثر، نظم جي ڀاڱن ۽ گرامر مان امتحان ورتو وڃي.



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**ASAN URDU -X**

صفحہ نمبر	حصہ نثر (عنوان)	نمبر شمار
۷	از : علامہ سید سلیمان ندوی	۱. حق کا پیغام
۱۰	از: حکیم محمد سعید	۲. جاؤ ، آج تم سب آزاد ہو
۱۳	از: مؤلفین	۳. پاکستان سے محبت
۲۴	از: ڈاکٹر علامہ مصطفیٰ خاں	۴. وطن کی خاطر
۲۸	از: ڈپٹی نذیر احمد	۵. آتش بازی
۳۵	از: مختار مسعود	۶. قائد اعظم سے پہلی اور آخری ملاقات
۴۱	از: آغا محمد اشرف	۷. فضول رسمیں
۴۸	از: علامہ شبلی نعمانی	۸. ایک دل چسپ سفر
۵۱	از: ڈاکٹر اسلم فرخی	۹. ہم سب ایک ہیں
۵۶	از: مؤلفین	۱۰. قومی اور علاقائی زبانیں
۶۷	از: مؤلفین	۱۱. مرزا غالب کی باتیں
	<b>حصہ نظم (عنوان)</b>	۱۲.
۷۸	از: حفیظ جالندھری	۱. حمد باری تعالیٰ
۸۰	از: بہزاد لکھنوی	۲. نعت
	<b>غزلیں</b>	
۸۲		۱. خواجہ میر درد
۸۲		۲. مرزا غالب
	<b>نظمیں</b>	
۸۴	از: علامہ شبلی نعمانی	۱. اہل بیت رسول صل اللہ علیہ و آلہ و سلم کی زندگی
۸۷	از: علامہ اقبال	۲. حضرت ابو بکر صدیق رضہ

جماعت وار تلخیصی کورس (نصاب اُردو کے مطابق) آسان اُردو برائے نویں جماعت

۱. زبان شناسی / قواعد
- اسم خاص اور اسم عام میں تمیز کرسکیں۔
- سادہ جملے بنانے پر عبور حاصل کرسکیں۔
- سادہ جملوں کو زمانہ ماضی، حال اور مستقبل کے لحاظ سے تبدیل کر سکیں۔
- رموز اوقاف کا درست استعمال کر سکیں۔
- عام موضوعات پر سادہ اور مختصر کہانی لکھ سکیں۔
- مختلف موضوعات پر تین سے چار پیراگراف لکھ سکیں جو مربوط اور منظم ہوں۔
- مختلف پیشوں سے متعلق اپنے احساسات و خیالات گیارہ سے پندرہ جملوں میں تحریر کر سکیں۔



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**MATHEMATICS -X**

Unit	Topics & Exercises
Unit 1: Sets	Complete Unit with all Exercises (1.1 to 1.4)
Unit 2: System of Real Numbers, Exponents and Radical	Complete Unit with all Exercises (2.1 to 2.8)
Unit 3: Logarithms	3.3 Definition of Logarithm Exercise 3.2 3.6 Common Logarithms Exercise 3.4 3.7 Antilogarithms Exercise 3.5 3.8 Applications of Logarithms and Computations Exercise 3.6
Unit 4: Algebraic Expressions	4.1 Variables and Consonants 4.2 Coefficient 4.3 Algebraic Expressions 4.4 Kinds of Algebraic Expressions 4.5 Classification of Polynomials Exercise 4.1 4.6 Order of the Algebraic Expressions Exercise 4.2, 4.4 4.10 Formulae and their Application Exercise 4.6 to 4.10
Unit 5: Factorization, HCF, LCM, Simplification and Square Roots	5.2 Factors of the Expressions Reducible to the Form $a^2 - b^2$ Exercise 5.2 5.3 Factors of the Expressions of the types $ax^2 + bx + c$ Exercise 5.3 5.4 Factors of the Expressions of the $a^3 \pm b^3$ (Exercise 5.4) 5.5 Factors of the Expressions of the types $a^3 + b^3 + c^3 - 3abc$ Exercise 5.5 5.8 Highest Common Factor Exercise 5.8 5.9 Least Common Multiple (LCM) of Polynomials Ex:5.10, 5.14
Unit 6: Algebraic Sentences	6.3: Solution of the equations involving radicals in one variable. Ex:6.3 6.4: Solution of equation of one variable involving absolute value. Exercise : 6.4 6.5 Inequalities or Inequations Exercise : 6.5 6.6: Quadratic equation in one variable. 6.7: Solution of the Quadratic equation by factorization, Ex: 6.6 6.8: Solution of quadratic equations by computing the squares. Ex. 6.7 6.10 Solution of Quadratic Equations by Quadratic Formula Ex: 6.8
Unit 7: Matrices	Complete Unit with all Exercises (7.1 to 7.5)
Unit 8: Elimination	Complete Unit with Exercise 8.1
Unit 11: Fundamental Concepts of Geometry	Complete Unit with Exercises 11.1
Unit 12: Demonstrative Geometry	Theorems on lines and polygons Methods of Proof Theorems 1 to 5 with their related exercises (12.1 to 12.5)
Unit 13: Circle	Exercises 13.1
Unit 14: Practical Geometry	Exercise 14.2
Unit 15: Trigonometry	Complete Unit with all Exercises (15.1 to 15.5)



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**PHYSICS -X**

UNIT	TOPIC
1. Introduction	1. What is PHYSICS? 2. Importance of PHYSICS in daily life.
2.Measurement	1. Physical quantities 2. Measuring instruments (Vernier caliper, micrometer screw gauge, physical balance)
3.Kinematics of linear motion	1. Rest & motion 2. Types of motion 3. Distance & Displacement 4. Speed 5. Velocity 6. Acceleration 7. Equations of motion
4.Motion & force	1. Force 2. Newtons laws of motion 3. Mass & weight 4. Momentum
5.Vectors	1. Introduction(scalar,vectors) 2. Vector representation 3. Resolutions of vectors
6.Equilibrium	1. Torque or moment of a force 2. Centre of gravity 3. Conditions of equilibrium 4. States of equilibrium
7.Circular motion & Gravitation	1. Uniform circular motion 2. Centripetal acceleration 3. Centripetal force 4. Law of universal Gravitation 5. Mass of Earth 6. Variation of 'g' decreases with altitude
8.Work, Power & Energy	1. Work 2. Power 3. Energy 4. Kinetic energy 5. Gravitational potential Energy
9.Simple machines	<b>N.B: This Chapter may be skipped (Excluded)</b>
10.Properties of Matter	1. Elasticity 2. Hooks law applied to a helical spring 3. pressure 4. Pascals law 5. Application of pascal law (hydraulic lift) 6. Archimedes principle 7. Analytical treatment of Archimedes principle 8. Buoyancy & law of floatation 9. Kinetic molecular theory of matter



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11.Heat	<ol style="list-style-type: none"> <li>1. Temperature</li> <li>2. General features of a thermometer</li> <li>3. Mercury in glass thermometer</li> <li>4. Thermal expansion</li> <li>5. Linear thermal expansion of solids</li> <li>6. Volume thermal expansion</li> <li>7. Anomalous expansion of water</li> <li>8. Boyles law</li> <li>9. Charles law</li> <li>10. General gas equation</li> <li>11. Heat capacity</li> <li>12. Specific heat capacity</li> </ol>
12.Waves & sound	<ol style="list-style-type: none"> <li>1. Simple harmonic motion</li> <li>2. Example of simple harmonic motion (simple pendulum)</li> <li>3. Wave motion</li> <li>4. Characteristics of wave</li> <li>5. How sound is produced?</li> <li>6. Velocity of sound</li> </ol>
13.Propagation & reflection of light	<ol style="list-style-type: none"> <li>1. Reflection of light</li> <li>2. Laws of reflection</li> <li>3. Regular &amp; irregular reflection</li> <li>4. Mirror formula (equation for spherical mirrors)</li> </ol>
14.Refraction of light & optical instruments	<ol style="list-style-type: none"> <li>1. Refraction of light</li> <li>2. Refraction of light through prism</li> <li>3. Lenses</li> <li>4. Thin lens formula</li> <li>5. Magnification</li> <li>6. Optical instruments (human eye)</li> </ol>
15.Nature of light &electromagnetic spectrum	<ol style="list-style-type: none"> <li>1. Quantum theory &amp; dual nature of light</li> <li>2. The spectrum</li> </ol>
16. Electricity	<ol style="list-style-type: none"> <li>3. Insulator &amp; conductor</li> <li>4. Coulombs law</li> <li>5. Electric field</li> <li>6. Capacitor</li> <li>7. Electromotive force (e.m.f)</li> <li>8. Electric current</li> <li>9. Resistance</li> <li>10. Ohms law</li> </ol>
17.Magnetism & electromagnetism	<ol style="list-style-type: none"> <li>1. Magnetic force</li> <li>2. Magnetic field</li> <li>3. Force on a current carrying conductor in a magnetic field</li> </ol>
18. Electronics	<ol style="list-style-type: none"> <li>1. N-type and p-type substances</li> <li>2. P-n junction diode</li> </ol>
19.Nuclear Physics	<ol style="list-style-type: none"> <li>1. Natural radioactivity</li> <li>2. Alpha beta &amp; gamma rays</li> <li>3. Nuclear fission</li> <li>4. Nuclear fusion</li> </ol>

**NB:** The above enlisted topics & their relevant Practical and problems are included in the course.



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