

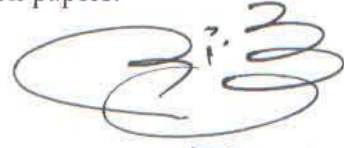
FEDERAL BOARD OF INTERMEDIATE AND SECONDARY EDUCATION
H-8/4, ISLAMABAD

NO.3-21/FBISE/RES/CC/266

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 reduced syllabus for Classes 11th & 12th for HSSC Annual Examination 2021 is uploaded on FBISE's website www.fbise.edu.pk. However, there will be no change in the format and style of question papers.



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Reduced Syllabus

HSSC-I and HSSC-II

Examination 2021 under FBISE



National Curriculum Council

Ministry of Federal Education and
Professional Training

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**REDUCED SYLLABUS
ENGLISH COMPULSORY HSSC-I**

UNITS INCLUDED		UNITS EXCLUDED	
No.	Title	No.	Title
1.	Responsibilities of the Youth	6.	Mother to Son (poem)
2.	His First Flight	8.	Wasteland
3	Good Timber (poem)	11.	The Importance of Family
4	From Mother... With Love	16.	School Vs Education
5	It's Country for Me	18.	A Dream Within A Dream
7	Choice of Career	19.	Drug Abuse in the Youth of Pakistan
9	The White Lamb		
10	The World is Too Much with Us (poem)		
12	The Blanket		
13	Ozymandias (poem)		
14	A Long Walk Home		
15	University Days		
17	What You Do is What You Are		
20	How to Take a Job Interview		
21	The Road Not Taken (poem)		
22	The Progress		

NOTE: The inclusion & exclusion of units encompass the relevant exercises also.

REDUCED SYLLABUS ENGLISH ELECTIVE-XI

NOTE: There will be no change in the following fields:

1. Any essay of relatively advance nature
2. A passage of fairly advanced prose for comprehension and precis writing
3. Grammar – Synthesis Idioms

Section “A” Functional English

1. Any essay of relatively advanced nature
2. A passage of fairly advanced prose followed by:
 - a. A series of comprehension questions
 - b. A precis of all parts of the passage

Section “B” Text

3. Poetry: The Magic Casement: Book-II (Poem No.5, 7, 11, 12, 16, 19 and 20 are excluded)
4. Prose: A new Anthology of Essays (Essay No.3, 5, 8, 11, 12, 13, 19 and 22 are excluded)
5. Grammar: Synthesis/Idioms

نصاب اردو لازمی برائے جماعت گیارہ

حصہ نثر:

مصنف	شم ار	عنوان	مصنف	شم ار	عنوان
مولوی ذکا اللہ	2	جھوٹے آدمی	سر سید احمد خان	1	اپنی مدد آپ
خدیجہ مستور	8	آنگن	ڈاکٹر سید عبد اللہ	4	پاکستانی قومیت کا مسئلہ
ابن انشا	11	شیراز اور کنار آب رکنا باد وغیرہ	خواجہ معین الدین	10	تعلیم بالغاں
(ا) مرزا غالب (ب) علامہ اقبال	14	مکاتیب	بشیر احمد بلوچ	13	لالچی وزیر (ترجمہ)

حصہ نظم:

شاعر	شم ار	عنوان	شاعر	شم ار	عنوان
محسن کاکوروی	2	نعت	ماہر القادری	1	حمد
میر انیس حفیظ	5	ڈر مراد (مرثیہ)	نظیر اکبر آبادی	3	شہر آشوب
جالندھری	9	جلوہ سحر	اکبر الہ آبادی	8	نصیحت اخلاقی
عبد الرحمن بابا/مترجم طہ خان	13	اخلاص	سید ضمیر جعفری	11	یہ سڑکیں

حصہ غزل:

- 1- فقیرانہ آئے صدا کر چلے
 - 2- قتل عاشق کسی معشوق سے کچھ دور نہ تھا
 - 3- ناگہ چمن میں جب وہ گل اندام آ گیا
 - 4- ہزاروں خواہشیں ایسی کہ ہر خواہش پہ دم نکلے
 - 5- آئینہ اپنی نظر سے نہ جدا ہونے دو
- نوٹ: شدہ عنوانات کے مصنفین، شعراء کا تعارف اور مشقی سوالات بھی شامل نصاب نہیں ہوں گے۔

قواعد و انشا: صنعتوں اور اصناف سخن کی تعریف اور پہچان
صنائع: صنعت تلمیح، صنعت مراعاة النظیر، صنعت تضاد، صنعت حسن تعلیل، صنعت تضمین، صنعت لف و
نشر

اصناف سخن: حمد، نعت، مرثیہ، شہر آشوب، غزل، نظم اور غزل میں فرق
مضمون، ناول، ڈراما، سفرنامہ، لوک کہانی، مکتوب نگاری، مطلع، مقطع، قافیہ، ردیف، تشبیہ، استعارہ،
روزمرہ، محاورہ

حصہ انشا پردازی 1- روداد/مکالمہ 2- درخواست/خط 3- تلخیص

نصاب اردو (ادب)

جماعت گیارہویں

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مصنف	سبق	نمبر شمار
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مرزا ہادی رسوا	امراؤ جان ادا	4
شوکت صدیقی	خدا کی بہتی	5
خدیجہ مستور	آنگن	6
منشی پریم چند	زیور کا ڈبا	7
سر سید احمد خاں	رسم و رواج	11
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امیر مینائی	نعت	3
میر انیس	شوق شہادت	4
علامہ محمد اقبالؒ	جاوید کے نام	7
علامہ محمد اقبالؒ	شاپین	8
خوشی محمد ناظر	جوگی	10
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اصناف نظم و نثر: غزل، رباعی، قطعہ، مرثیہ، نظم، آزاد نظم، قصیدہ، حمد، نعت، منقبت، داستان، ناول، مختصر افسانہ، ڈراما، خاکہ، انشائیہ، سوانح، شخصیت نگاری (خاکہ)

نصاب اسلامیات (لازمی)

- ۱- بابِ اوّل: بنیادی عقائد
- ۱- توحید ب- رسالت ہ- آخرت
- ۲- بابِ دوّم: اسلامی تشخص
- ۱- ارکانِ اسلام ب- اللہ تعالیٰ اور رسول ﷺ کی محبت و اطاعت
- د- معاشرتی ذمہ داریاں
- ۳- بابِ سوّم: اُسوہِ رسولِ اکرم ﷺ
- ۱- رحمتہ للعالمین ب- اُخوت ج- مساوات
- ہ- عفو و درگزر
- ۴- بابِ چہارم: تعارفِ قرآن و حدیث
- ۱- تعارفِ قرآن (قرآن مجید کی تعریف، قرآن مجید کے اسماء، قرآن مجید کی سورتوں کی خصوصیات، حضور ﷺ کا آخری حج، قرآن مجید کو سورتیں اور آیات، قرآن مجید کی خوبیاں، قرآن مجید کی ترتیب)
- ب- تعارفِ حدیثِ مکمل
- ج- منتخب آیات (آیت نمبر 1 تا 12 ترجمہ آیت نمبر 1 تا 6 تشریح)
- ۱- يَا أَيُّهَا الَّذِينَ آمَنُوا اتَّقُوا اللَّهَ وَ قُولُوا قَوْلًا سَدِيدًا يُصْلِحْ لَكُمْ أَعْمَالَكُمْ وَيَغْفِرْ لَكُمْ ذُنُوبَكُمْ ط وَ مَنْ يُطِيعِ اللَّهَ وَ رَسُولَهُ فَقَدْ فَازَ فَوْزًا عَظِيمًا
- ۲- لَقَدْ كَانَ لَكُمْ فِي رَسُولِ اللَّهِ أُسْوَةٌ حَسَنَةٌ
- ۳- وَاعْتَصِمُوا بِحَبْلِ اللَّهِ جَمِيعًا وَلَا تَفَرَّقُوا
- ۴- إِنَّ أَكْرَمَكُمْ عِنْدَ اللَّهِ اتَّقَى اللَّهَ ط
- ۵- إِنَّ فِي خَلْقِ السَّمَوَاتِ وَ الْأَرْضِ وَ اخْتِلَافِ اللَّيْلِ وَ النَّهَارِ لَآيَاتٍ لِّأُولِي الْأَلْبَابِ
- ۶- لَنْ نَنَالُوا الْبِرَّ حَتَّى نُنْفِقُوا مِمَّا تُحِبُّونَ ط
- ۷- وَ مَا آتَاكُمُ الرَّسُولُ فَخُذُوهُ ق وَ مَا نَهَاكُمْ عَنْهُ فَانْتَهُوا ج
- ۸- إِنَّ الصَّلَاةَ تَنْهَى عَنِ الْفَحْشَاءِ وَ الْمُنْكَرِ ط
- ۹- وَلَا تَكْسِبُ كُلُّ نَفْسٍ إِلَّا عَلَيْهَا ج وَ لَا تَزِرُ وَازِرَةٌ وِزْرَ أُخْرَى ج

- ١٠- إِنَّ اللَّهَ يَأْمُرُ بِالْعَدْلِ وَالْإِحْسَانِ
 ١١- إِنَّا نَحْنُ نَزَّلْنَا الذِّكْرَ وَإِنَّا لَهُ لَحَافِظُونَ O
 ١٢- يَا أَيُّهَا الَّذِينَ آمَنُوا كُتِبَ عَلَيْكُمُ الصِّيَامُ

د- منتخب احاديث كامل

- ١- إِنَّمَا الْأَعْمَالُ بِالنِّيَّاتِ، وَإِنَّمَا لِكُلِّ امْرِئٍ مَّا نَوَى
 ٢- إِنَّمَا بُعِثْتُ لِأَتَمِّمَ حُسْنَ الْأَخْلَاقِ
 ٣- لَا يُؤْمِنُ أَحَدُكُمْ حَتَّىٰ أَكُونَ أَحَبَّ إِلَيْهِ مِنْ وَالِدِهِ وَوَلَدِهِ
 وَالنَّاسِ أَجْمَعِينَ
 ٤- لَا يُؤْمِنُ أَحَدُكُمْ حَتَّىٰ يُحِبَّ لِأَخِيهِ مَا يُحِبُّ لِنَفْسِهِ
 ٥- الْمُسْلِمُ مَنْ سَلِمَ الْمُسْلِمُونَ مِنْ لِسَانِهِ وَيَدِهِ
 ٦- لَا يَرْحَمُهُ اللَّهُ مَنْ لَا يَرْحَمُ النَّاسَ
 ٧- كُلُّ الْمُسْلِمِ عَلَى الْمُسْلِمِ حَرَامٌ دَمُهُ وَوَالِدُهُ وَعَرَضُهُ
 ٨- مَا عَالَ مَنْ اقْتَصَدَ
 ٩- مَنْ سَلَكَ طَرِيقًا يَطْلُبُ فِيهِ عِلْمًا سَلَكَ اللَّهُ بِهِ طَرِيقًا
 مِّنْ طُرُقِ الْجَنَّةِ
 ١٠- الْمُؤْمِنُ أَخُو الْمُؤْمِنِ كَالْجَسَدِ الْوَاحِدِ إِنْ اشْتَكَى شَيْئًا
 مِنْهُ وَجَدَ أَلَمَ ذَلِكَ فِي سَائِرِ جَسَدِهِ
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 ١٢- الصِّدْقُ يُنَجِّي وَالْكَذِبُ يُهْلِكُ

اسلامیات اختیاری گیارہویں جماعت کے لیے

- الف۔ القرآن الحکیم: سورة البقرہ ایک سے پانچ رکوع تک ب۔ الحدیث: ایک سے پندرہ احادیث اربعین امام نودی
ج۔ سیاسی و ثقافتی تاریخ اسلام، سیرت النبی ﷺ، خلافت راشدہ د۔ فقہ اسلامی (اسلامی قانون کے ماخذ)

ضمیمہ پرچہ اول

- الف۔ القرآن الحکیم (سورة البقرہ)
1۔ تعارف، وحی، مکی اور مدنی سورتوں کی خصوصیات 2۔ سورة البقرہ ایک سے پانچ رکوع تک ترجمہ و تشریح
ب۔ الحدیث
1۔ حدیث و سنت کا مفہوم، اہمیت
2۔ ایک سے پندرہ احادیث اربعین امام نودی فقط ترجمہ
ج۔ سیاسی و ثقافتی تاریخ اسلام
2۔ سیرت النبی ﷺ
تبلیغ اسلام و مشکلات، ہجرت حبشہ و مدینہ، غزوات، صلح حدیبیہ، فتح مکہ، حجة الوداع، آنحضرت ﷺ بحیثیت مصلح اعظم انسانیت
3۔ خلافت راشدہ
1۔ حضرت ابوبکر صدیقؓ: انتخاب خلافت، فتنہ ارتداد اور باغیوں کی سرکوبی، سیرت و کاربائے نمایاں
2۔ حضرت عمر فاروقؓ: اشاعت و فروغ اسلام، اصلاحات، سیاسی، فوجی، عدالتی اور معاشرتی، سیرت و اخلاق
3۔ حضرت عثمان غنیؓ: اشاعت و فروغ اسلام، شہادت، سیرت و اخلاق
4۔ حضرت علیؓ: نظام حکومت، شہادت، سیرت و اخلاق
5۔ خلفائے راشدین کے عہد میں اسلام کی ترقی اس کے سیاسی سماجی اقتصادی اور تمدنی پہلو
6۔ خلافت راشدہ اور انتخاب
د۔ فقہ اسلامی (اسلامی قانون) ماخذ
1۔ القرآن 2۔ الحدیث 3۔ اجماع 4۔ قیاس

REDUCED SYLLABUS ISLAMIC HISTORY-XI

I. Pre-Islamic Arabia

Religious, Social Economic and Political conditions of Pre-Islamic Arabia

II. Early Life of Rasullah (S.A.W.)

1. Birth and family background of Rasullah (S.A.W)
2. Life before NUBUWAHT
3. Life after declaration of NUBUWAHT

III. Spread of Islam at Makkah

1. Migration to Habshah
2. Journey to Taif and Miraj
3. The pledges of Aqaba

IV. Spread of Islam at Madina

1. Hijrat and its significance
2. Islamic brotherhood
3. Misaq-e-Madina
4. Battle of Badr, Uhad, Ahzab, Khyber, Hunain and Tabuk
5. Baite-Rizwan
6. Conquest of Makkah
7. HajjatulWidda and the Last Sermon features

V. Seerat-un-Nabi (S.A.W)

Muhammad Rasullah (S.A.W)

1. As a Prophet
2. As a Statesman

VI. Khalafat-e-Rashdah

1. Hazrat Abu Bakar Siddique: Introduction, initial difficulties, its remedies and contribution towards Islam
2. Hazrat Umer Farooq: Introduction, Conquest (Qadsia and Yermook), administrative system, contribution towards Islam and achievements
3. Hazrat Usman Ghani: Introduction, contribution towards Islam, martyrdom its causes, events and results
4. Hazrat Ali Murtaza: Introduction, difficulties and events
5. Achievements of Khalafat-e-Rashdah

REDUCED SYLLABUS HISTORY OF PAKISTAN-XI

- I. Difficulties Faced by Pakistan after Independence**
 1. Red Cliff's Award and its injustice
 2. Accession of Princely States –Kashmir
 3. Refugee's problem
 4. Administrative issues
 5. Water dispute

- II. Constitutional Developments in Pakistan upto 1962**
 1. Objective Resolution
 2. Salient features of:
 - a. 1956 Constitution
 - b. 1962 Constitution Salient features

- III. Socio-Political Developments in Historical Perspective During 1962 – 1969**
 1. Formation of one Unit
 2. Imposition of Martial Law
 3. Industrial and agriculture reforms
 4. 1965 War in relation to:
 - i. The aggressive and inflexible attitude of Indian governments towards Pakistan

- IV. Anatomy of the Happenings from 1969 to 1971**
 1. Fall of Ayub's regime and Yahyah's Marshal Law
 2. Elections 1970
 3. Impact of 1970's elections
 4. Sheikh Mujeb's six points
 5. Army action and role of political parties
 6. Causes and lessons learnt from the debacle of Pakistan 1971

- V. Pakistan Foreign Policy**
 1. Main features of foreign policy
 2. Relations bonds with neighbouring countries
 3. Relations with Saudi Arabia

REDUCED SYLLABUS PHYSICS-XI

01. MEASUREMENTS

- 1.2 Supplementary units (Radian, Steradian)
- 1.8 Precision and accuracy
- 1.9 Dimensions of physical quantities.

02. VECTORS AND EQUILIBRIUM

- 2.6 Addition of vectors by rectangular components.
- 2.7 Product of vectors.
- 2.9 Torque
- 2.10 Equilibrium.
- 2.11 Conditions of equilibrium.

03. FORCES AND MOTION

- 3.8 Linear momentum.
- 3.9 Collisions
- 3.11 Projectile Motion.

04. WORK AND ENERGY

- 4.1 Work done by a constant force, work done by a variable force.
- 4.2 Work done in a gravitational field.
- 4.6 Absolute Potential energy.
- 4.7 Escape velocity.

05. ROTATIONAL AND CIRCULAR MOTION

- 5.1 Angular Motion
- 5.2 Relation between angular and linear quantities.
- 5.3 Centripetal Force and Centripetal Acceleration
- 5.4 Torque and moment of inertia.
- 5.5 Angular momentum and torque.
- 5.6 Conservation of Angular Momentum
- 5.7 K.E of rotation.
- 5.8 Rolling of a Disc and hoop down the inclined plane.

06. FLUID DYNAMICS

- 6.1 Viscous Fluids
- 6.2 Fluid Friction and Stoke's Law
- 6.3 Terminal Velocity
- 6.4 Equation of continuity.

07. OSCILLATIONS

- 7.4 Circular motion and S.H.M.
- 7.5 Simple Pendulum.
- 7.7 Resonance
- 7.9 Phase
- 7.10 Damped Oscillations

08. WAVES

- 8.4 Speed of sound.
- 8.8 Beats
- 8.9 Reflection of Waves and Phase Change
- 8.10 Stationary Waves.
- 8.11 Transverse Stationary waves in a stretched string.
- 8.13 Resonance of air column and organ pipes.
- 8.14 Doppler effect.

09. PHYSICAL OPTICS

- 9.3 Huygen's Principle.
- 9.4 Coherent Sources.
- 9.5 Interference of Light.
- 9.8 Michelson's interferometer.
- 9.9 Diffraction of Light
- 9.10 Diffraction at a Single Slit
- 9.11 Diffraction grating.
- 9.12 Diffraction of x-rays by crystals.
- 9.13 Polarization of light, Applications of polarized light.

10. THERMODYNAMICS

- 10.5 Thermodynamic System.
- 10.6 Reversible and Irreversible Processes
- 10.7 First law of thermodynamics.
- 10.8 Molar specific heat of a gas.
- 10.9 Heat engine.
- 10.10 Second law of thermodynamics.
- 10.11 Carnot heat engine.
- 10.13 Entropy.

NOTE: All MCQs, short questions and problems relevant to the abovementioned topics are included.

REDUCED SYLLABUS

BIOLOGY HSSC-I

NOTE:

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

1. CELL STRUCTURE AND FUNCTION

- 1.2 Cell Wall and Plasma Membrane – The Boundary Wall
- 1.3 Cytoplasm and Organelles
- 1.4 Prokaryotic and Eukaryotic Cells

2. BIOLOGICAL MOLECULES

- 2.3 Carbohydrates
(Examples of Polysaccharides are **excluded**)
- 2.4 Proteins
 - 2.4.1 Structure of Proteins (Amino Acids and Peptide Linkages)
 - 2.4.2 Classification of Proteins (Globular and Fibrous Proteins)
 - 2.4.3 Role of Proteins
- 2.5 Lipids
 - 2.5.1 Classification (Acylglycerols)
 - 2.5.2 Properties of Fatty acids
(Waxes, Terpenes, Steroids, Prostaglandins are **excluded**)
- 2.6 Nucleic Acids
 - 2.6.1 Chemical Structure of Nucleic Acids
 - 2.6.3 Watson & Crick Model of DNA
 - 2.6.4 Concept of Gene
 - 2.6.5 RNA

3. ENZYMES

- 3.1 Structure of Enzymes
- 3.2 Mechanism of Enzyme Action
- 3.4 Enzyme Inhibition (Competitive and Noncompetitive Inhibitors)

4. BIOENERGETICS

- 4.1 Photosynthesis
 - 4.1.1 Role of Light
 - 4.1.2 Role of Photosynthetic Pigments
 - 4.1.3 Absorption Spectrum and Action Spectrum
 - 4.1.4 Arrangements of Pigments
 - 4.1.5 Role of Carbon dioxide
 - 4.1.6 Role of water
 - 4.1.7 Mechanism of Photosynthesis
 - 4.1.8 Light Dependent Phase
 - 4.1.9 Light Independent Phase
- 4.2 Cellular Respiration
 - 4.2.3 Mechanism of Aerobic Respiration
 - 4.2.4 Oxidation of Pyruvates
 - 4.2.5 Krebs's Cycle
 - 4.2.6 Electron Transport Chain
 - 4.2.7 Chemiosmosis & Oxidative Phosphorylation

5. ACCELLULAR LIFE

- 5.3 Bacteriophage
 - 5.3.1 Structure of Bacteriophage
 - 5.3.2 Life Cycle of Bacteriophage
 - 5.3.3 Infection Process
 - 5.3.4 Replication of Bacteriophage
 - 5.3.5 Replication of Bacteriophage in Lysogenic cycle

- (Uses of Bacteriophages in Genetic Engineering is **excluded**)
- 5.4 Human Immuno Deficiency Virus
 - 5.4.1 Structure of HIV
 - 5.4.2 Life Cycle of HIV
 - 6. **PROKARYOTES**
 - 6.2 Archaea
 - 6.3 Bacteria; Ecology and Diversity
 - 6.4 Structure; Shape and Size of Bacteria
 - 6.5 Modes of Nutrition in Bacteria
 - 6.6 Growth and Reproduction in Bacteria
 - 7. **PROTISTS AND FUNGI**
 - 7.2 Major groups of Protists (protozoa, algae, myxomycota, oomycota)
 - 7.3 General characteristics of Fungi
 - 7.4 Diversity among Fungi (Zygomycota, Ascomycota, Basidiomycota)
 - 8. **DIVERSITY AMONG PLANTS**
 - 8.2 Nonvascular Plants (General characteristics)
 - 8.3 Seedless Vascular Plants (General characteristics)
 - 8.3.1 Evolution of Leaf
 - 8.4 Seed Plants
 - 8.4.2 Gymnosperms (General characteristics)
 - 8.4.3 Angiosperms (General characteristics and Life cycle)
 - 8.4.6 Inflorescence **excluded**
 - 9. **DIVERSITY AMONG ANIMALS**
 - 9.1 Characteristics of animals
 - 9.2 Criteria for animal classification
 - 9.3 Diversity in Animals
 - 9.3.1 Invertebrates
 - 9.3.2 Vertebrates

(NOTE: Evolutionary adaptations of invertebrate phyla and of vertebrate classes are **excluded**)

Classification of Chordates **excluded**
 - 10. **FORM AND FUNCTIONS IN PLANTS**
 - 10.3.1 Uptake of Water by Roots and Pathways
 - 10.3.2 Ascent of Sap
 - 10.3.3 Opening and Closing of Stomata
 - 10.3.4 Translocation of Organic Matter
 - 10.6 Growth and Development in Plants
 - 10.6.1 Tissues for Growth – Apical and Lateral Meristems
 - 10.6.2 Primary and Secondary Growth
 - 10.7.2 Geotropism and Phototropism
 - 10.7.4 Vernalization
 - 11. **DIGESTION**
 - 11.1 Digestive System of Man
 - 11.1.1 Alimentary Canal; Structural and Functional details
 - 12. **CIRCULATION**
 - 12.1 Blood Circulatory System of Man
 - 12.1.1 Heart
 - 12.1.1.1 Structure of Heart
 - 12.1.1.3 Heartbeat and its Control
 - 12.1.2 Blood Vessels (Arteries, Capillaries and Veins)
 - 12.3 Lymphatic System of Man
 - 13. **IMMUNITY**
 - 13.1 First Line of Defense (Skin, Digestive Tract, Air Passageway)
 - 13.2 Second Line of Defense – The Nonspecific Defenses
 - 13.2.1 Killing Cells of Blood
 - 13.2.2 Protective Proteins

- 13.2.3 Inflammatory Response
- 13.3 Third Line of Defense – The Specific Defenses
 - 13.3.2 Cell mediated and Antibody mediated immunity
 - Activation of T-Cells **excluded**

REDUCED SYLLABUS

CHEMISTRY-XI

1. STOICHIOMETRY

Introduction

- 1.1 Mole
- 1.2 Avogadro's Number
- 1.3 Percentage Composition
- 1.4 Excess and Limiting Reagents
- 1.5 Percentage Yield

2. ATOMIC STRUCTURE

Introduction

- 2.4 Bohr's Atomic Model and its applications
 - 2.4.1 - 2.4.5 Derivation of Radius, Energy, Frequency, Wave Length, Wave Number
 - 2.4.6 Defects of Bohr's atomic model
 - 2.4.7 Hydrogen Spectrum
- 2.5 Planck's Quantum Theory
- 2.7 Quantum Numbers and Orbitals
 - 1. Principle Quantum Number
 - 2. Azimuthal Quantum Number
 - 3. Magnetic Quantum Number
 - 4. Spin Quantum Number
 - 5. Shapes of s, p and d Orbitals
- 2.7.1 Shells and sub-shells or orbitals
- 2.8 Electronic Configuration
 - 2.8.1 The relative energies of atomic orbital
 - 2.8.2 Rules

3. THEORIES OF COVALENT BONDING AND SHAPES OF MOLECULES

Introduction

- 3.1 Shapes of molecules
 - 3.1.1 VSEPR
- 3.2 Theories of covalent bonding
 - 3.2.1 VBT and hybridization
 - 3.2.3 MOT

4. GASES

Introduction

- 4.2.3 Effect of change in P on V of gas (Boyle's law)
- 4.2.4 Effect of change in T on V of gas (Charles's law)
- 4.2.5 Absolute Zero
- 4.3 Avogadro's Law
- 4.4 Ideal Gas Equation (4.4.1- 4.4.3)
- 4.5 Deviation From Ideal Gas Behavior

- 4.5.1 Why real gases deviate from gas law?
- 4.6 Van der Waals Equation
- 4.7 Dalton's law of partial pressure and its application
- 4.8 Graham's Law of Diffusion and Effusion
- 5. LIQUIDS**
 - Introduction
 - 5.2 Intermolecular Forces
 - 5.2.1 Dipole-Dipole interaction
 - 5.2.2 London Forces
 - 5.2.3 Hydrogen Bonding
 - 5.3 Liquid Crystals
 - 5.4.4 Liquid crystal and their uses in daily life history
 - 5.4.5 How to differentiate between liquid crystals from pure liquids and crystalline solid.
- 6. SOLIDS**
 - Introduction
 - 6.3
 1. Anisotropy
 2. Isomorphism
 3. Polymorphism
 4. Allotropy
 5. Transition Temperature
 - 6.4 Crystal Lattice
 - 6.4.1 Unit Cell & Shape of NaCl
 - 6.5.2 Lattice energy
 - 6.5 Types of Crystalline Solids
 - 6.5.1 Ionic Solids
 - 6.5.2 Covalent Solids
 - 6.5.5 Molecular and metallic Solids
- 7. CHEMICAL EQUILIBRIUM**
 - Introduction
 - 7.1.1 Law of Mass Action
 - 7.1.2 Examples of Equilibrium Constant expression
 - 7.1.3 Units of equilibrium constant
 - 7.1.4 Equilibrium expression including partial pressure, no of moles and mole fraction.
 - 7.1.5 Types of equilibrium
 - 7.1.7 Applications of equilibrium constant
 - 7.2 Factors Affecting Equilibrium (Le-Chatellier Principle)
 - 7.2.1 Effect of Change in Concentration
 - 7.2.2 Effect of Change in Pressure or Volume
 - 7.2.3 Effect of Change in Temperature
 - 7.3 Industrial Application of Le-Chatellier Principle (Haber's Process)
 - 7.5 Common Ion Effect

8. ACIDS, BASES AND SALTS

Introduction

- 8.2 8.2.2 Relative Strength of Acids and Bases
- 8.3 Conjugate Acid-Base Pairs
- 8.4 Strength of Acids and Bases
 - 8.4.1 Ionization Equation of Water and calculation of pH and pOH in aqueous medium using given K_w values.
 - 8.4.2 Strong and weak acid
 - 8.4.3 Strong and weak base
 - 8.4.4 Relationship of K_a and K_b
- 8.6 Buffer Solutions and their Applications
- 8.7 Salt Hydrolysis

9. CHEMICAL KINETICS

Introduction

- 9.1 Rates of Reactions
 - 9.1.1 Determination of initial rate
 - 9.1.2 Rate law
 - 9.2.3 Order of Reaction and rate equation
- 9.2 Collision Theory, Transition State and Activation Energy

10. SOLUTIONS AND COLLOIDS

Introduction

- 10.2 Concentration Units
 - 10.2.1 Percent
 - 10.2.2 Molarity
 - 10.2.3 Molality
 - 10.2.4 Mole fraction
 - 10.2.5 Parts per million, billion, and trillion
- 10.3 Raoult's Law
 - 10.3.1 Causes of lowering of vapour pressure
- 10.4 Colligative Properties
 - 10.4.1 Lowering of vapour pressure
 - 10.4.2 Elevation of boiling point
 - 10.4.3 Depression in freezing point

11. THERMOCHEMISTRY

- 11.8 Hess's Law: Enthalpy Change Calculations
- 11.9 Born-Haber Cycle

12. ELECTROCHEMISTRY

Introduction

- 12.1 Oxidation-Reduction Concepts
 - 12.1.2 Oxidation Numbers
 - 12.1.3 Balancing of equation

- 12.2 Electrode, Electrode Potential and Electrochemical Series
 - 12.2.2 Cell potential
 - 12.2.3 Standard Hydrogen electrode
 - 12.2.4 Determination of cell potential
 - 12.2.5 Electrochemical series
 - 12.2.6 Activity series of metal

**Note: Topic related questions of self-check exercises and end exercise are included.
Society, technology and science of all chapters is not included.**

It is obvious that questions related to the topics not mentioned above are not included in exam. Paper will be curriculum based not book based.

REDUCED SYLLABUS MATHEMATICS-XI

Chapter 1	Number Systems
Exercise 1.1	Q1; Q3(iii, v, vi); Q4; Q5; Q6
Exercise 1.2	Q3; Q4; Q5; Q6; Q7; Q8; Q9; Q10; Q11; Q12; Q13; Q14(i, ii); Q15(ii, iii); Q16
Exercise 1.3	Q1(ii, iv, viii); Q2(i, iii); Q3(ii); Q4; Q5; Q6; Q7
Page 03	Example 2
Page 20	Example 1(iii, iv)
Page 21	Theorem (i, iii, v, vi)
Page 24	Example 2
Chapter 2	Sets, Functions and Groups
Exercise 2.1	Q1(iv, vii, xi); Q2(iv, v, vi, xii); Q9(ii, iii, iv)
Exercise 2.2	Q1(i, iv); Q2(i); Q5(i, ii, iii); Q6
Exercise 2.3	Q3; Q5; Q8; Q9
Exercise 2.4	Q1; Q2; Q3; Q4; Q5
Exercise 2.5	Q1; Q2; Q3; Q4
Exercise 2.6	Q1; Q3; Q4
Exercise 2.7	Q2; Q4; Q7
Exercise 2.8	Q2; Q4; Q5; Q6; Q7; Q8; Q10
Page 77	Theorem
Page 78	Theorem
Chapter 3	Matrices and Determinants
Exercise 3.1	Q2; Q8; Q10; Q11; Q12; Q13; Q14
Exercise 3.2	Q3(i, ii); Q5(i); Q7; Q9(i)
Exercise 3.3	Q1(iv, v, vi); Q2; Q3; Q4; Q5; Q6; Q8; Q9; Q10; Q11; Q12(i, ii); Q13; Q14; Q15; Q16; Q17

Exercise 3.4	Q1; Q2; Q3; Q4; Q5; Q6; Q7; Q8; Q9(i, ii); Q10(i, ii)
Exercise 3.5	Q1(i, ii); Q2(ii, iii); Q3; Q4(i, ii); Q5(i); Q6
Chapter 4	Quadratic Equations
Exercise 4.1	Q5; Q8; Q12; Q19; Q20
Exercise 4.2	Q2; Q3; Q5; Q7; Q8; Q9; Q10; Q12; Q13; Q14; Q16; Q17; Q18; Q19; Q20; Q22
Exercise 4.3	Q2; Q3; Q5; Q6; Q7; Q8; Q9; Q10; Q12
Exercise 4.4	Q1; Q2(iii, v); Q3; Q4; Q6; Q7; Q8
Exercise 4.5	Q10; Q14; Q15; Q16
Exercise 4.6	Q3; Q5; Q7; Q8; Q9
Exercise 4.7	Q3; Q4(i, iii); Q7; Q8
Exercise 4.8	Q4; Q7; Q8; Q9; Q10
Exercise 4.9	Q3; Q6; Q7; Q8; Q9; Q10
Exercise 4.10	Q7; Q9; Q11; Q14; Q15; Q17; Q19
Page 143	Example 1
Page 174	Example 2

Chapter 5	Partial Fractions
Exercise 5.1	Q4; Q5; Q8; Q9; Q11
Exercise 5.2	Q2; Q6; Q9; Q10; Q12
Exercise 5.3	Q3; Q4; Q6; Q8; Q9; Q10
Exercise 5.4	Q1; Q2; Q3

Chapter 6	Sequences and Series
Exercise 6.2	Q2; Q3; Q5; Q7; Q8; Q9; Q11; Q12; Q13; Q14
Exercise 6.3	Q2; Q3; Q4; Q7; Q8
Exercise 6.4	Q1; Q2(i, iv, vi); Q3(ii); Q4(ii); Q5; Q7; Q8; Q9; Q12; Q13; Q14; Q15; Q16; Q17; Q18

Exercise 6.5	Q2; Q3; Q5; Q6; Q9
Exercise 6.6	Q2; Q4; Q5; Q6; Q7(i, iii); Q8; Q10; Q11; Q12; Q13; Q14
Exercise 6.7	Q3; Q4; Q5; Q6; Q7; Q8
Exercise 6.8	Q2(i); Q3(ii); Q4; Q5(iii, v); Q6(i, iii, vi); Q7; Q9; Q10; Q11; Q12; Q14
Exercise 6.9	Q2; Q3; Q4
Exercise 6.10	Q2; Q3; Q5; Q6; Q9; Q11; Q13; Q14(i); Q15(ii); Q17; Q18
Page 201	Example 2, Example 3
Page 214	Example 6

Chapter 7	Permutation, Combination and Probability
Exercise 7.1	Q1(v, vii, ix, x)
Exercise 7.2	Q2; Q3; Q5; Q7; Q8; Q9; Q10; Q11; Q12; Q13; Q14
Exercise 7.3	Q3; Q5; Q6; Q7; Q8; Q9; Q10; Q12
Exercise 7.4	Q2; Q3; Q4; Q5; Q6; Q7; Q9; Q10
Exercise 7.5	Q5; Q7; Q10
Exercise 7.6	Q3
Exercise 7.7	Q1; Q3; Q4; Q5; Q6; Q7; Q8
Exercise 7.8	Q2; Q4; Q6; Q8; Q9; Q10

Chapter 8	Mathematical Induction
Exercise 8.1	Q2; Q5; Q7; Q9; Q13; Q15; Q18; Q20; Q21(ii, iv); Q23; Q24; Q27; Q28; Q34; Q36; Q37
Exercise 8.2	Q1(iii, iv, v, vi); Q3(ii, iii, iv); Q4(i, ii); Q5(i); Q6(ii, iii, iv); Q7; Q8; Q9(i, iii); Q10; Q11; Q12; Q13; Q14
Exercise 8.3	Q1(iii, v, vii, viii, x); Q3(ii, iv, v); Q4(ii, iii, iv, v, vi, vii); Q5(i); Q6; Q7; Q9(i, ii); Q10; Q11; Q12; Q13

Chapter 9	Fundamentals of Trigonometry
Exercise 9.1	Q4; Q5; Q7; Q9; Q10; Q12; Q13; Q15; Q16

Exercise 9.2	Q4; Q5; Q6; Q7; Q8
Exercise 9.3	Q4; Q5; Q6
Exercise 9.4	Q1; Q4; Q6; Q9; Q11; Q13; Q14; Q15; Q16; Q17; Q18; Q19; Q22; Q23; Q24

Chapter 10	Trigonometric Identities
Exercise 10.1	Q3(ii, iii); Q4; Q5
Exercise 10.2	Q3(i); Q4(iii, iv, v); Q5; Q6; Q7; Q8; Q9; Q10; Q11; Q12; Q13; Q14(i, iv, vi)
Exercise 10.3	Q1; Q5; Q6; Q7; Q9; Q10; Q12; Q13; Q14
Exercise 10.4	Q1(iii, vi, viii); Q2(iii, vi); Q3; Q4; Q5
Page 314	Article 10.1.2

Chapter 11	Trigonometric Functions and their Graphs
Exercise 11.1	Q1; Q4; Q9; Q11; Q12; Q15
Exercise 11.2	Q1(i, iii, vi); Q2
Page 339	Theorem 11.1
Page 340	Theorem 11.2

Chapter 12	Applications of Trigonometry
Exercise 12.3	Q9; Q10; Q11; Q13; Q15
Exercise 12.4	Q4; Q5
Exercise 12.5	Q3; Q4; Q5; Q8; Q9; Q11; Q12
Exercise 12.6	Q2; Q4; Q6; Q7; Q8; Q10
Exercise 12.7	Q1(ii); Q2(i); Q3(ii); Q4; Q5; Q6
Exercise 12.8	Q1(ii); Q2; Q3; Q4; Q5; Q6; Q7(ii); Q8; Q9; Q10; Q11; Q12
Page 377	Article 12.9

Chapter 13	Inverse Trigonometric functions
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Exercise 13.1	Q1(iii, iv, vii, viii, ix); Q2(i, ii); Q3(i, iii, iv, v, viii)
Exercise 13.2	Q1; Q2; Q3; Q4; Q5; Q6; Q8; Q9; Q10; Q11; Q12; Q13; Q14; Q15; Q16; Q17; Q18; Q19

Chapter 14	Solutions of Trigonometric Equations
Exercise 14	Q2; Q3; Q7; Q8; Q9; Q10; Q11; Q12; Q13; Q15; Q17; Q20
Page 406	Example 5

REDUCED SYLLABUS STATISTICS-XI

1. Introduction to Statistics: Collection (1/8) and Presentation of Data

Content	Scope
Nature and Importance of the Science of Statistics, Statistical Data, Population and sample. Brief revision of classification, tabulation and frequency distributions and their graphic representation	Define Statistics, give importance of measurements and different fields of science where measurements are useful. Explain different types of raw data in the fields of Science and Humanities, mainly in Medicine, in Agriculture, in Chemistry and Psychology. Explain the difference between a population and a sample, use sketches for showing population. Explain the importance of the sample. Demonstrate types of frequency distributions like symmetrical and non-symmetrical Cumulative and relative frequency distributions be explained by the use of sketches, Explain bar charts in different forms namely; divided bar charts, compound bar charts. Give an explanation for expressing data in rectangles an pie chart.

2. Measure of Location and Dispersion. (2/8)

Contents	Scope
Arithmetic mean, Geometric mean. Median, Mode, Range, Mean Deviation, Variance, Standard deviation, Difference between Absolute and Relative Measures of Dispersion. Skewness.	Explain arithmetic mean and variance of raw data from a frequency table, using mid points and also by change of origin and scale and their properties. To explain geometric mean, use ungrouped data as well as grouped data. Explain the method of direct calculation using root and also by using logarithms. To explain median and quantiles graphical method be explained as well. Mathematical proofs are not required.

3. Index Number (1/8)

Content	Scope
Introduction to Index numbers concept of price index numbers steps involved in the construction of price index numbers “Unweighted price index numbers (fixed based and chain based method)” weighted price index	Explain the index numbers as a useful statistical technique to assess the growth or fall of a certain item or economic series with respect to time or any other unit. Price index numbers by simple relative and link relative

<p>numbers (Laspeyer's and Fisher's) consumer price index number.</p>	<p>methods be explained. Price index and its constructions must be given as examples. Fixed base and chain base methods for price indices be explained. The concept of weights be explained with reference to the arithmetic means in grouped data. Laspeyer's and Fisher's indices be explained by applying the standard results on a number of exercises. Consumer price index number be explained in general and with reference to Pakistan. Similarly wholesale price index numbers to be also explained in a similar way.</p>
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4. Simple Linear Regression and Correlation (1/8)

Contents	Scope
<p>Bivariable data (non-random versus random variable) scatter diagram; estimation of regression parameters by least squares method, properties of the regression line; interpretation and applications of the regression line.</p> <p>Bivariate data, (random versus random variable) scatter diagram; point estimation of population correlation co-efficient; properties of the sample correlation co-efficient; interpretation and application.</p>	<p>Explain "Bivariate data", by giving sketches of scatter diagrams when one variable is specified and several values of response variable are assumed given at each non random variable similarly the sketches when both variable are random be also drawn and explained. Least square method be explained, normal equation be formed and estimation of regression parameters be given in terms of $\sum X$, $\sum Y$, $\sum XY$, $\sum Y^2$, and $\sum X^2$. Both the regression lines be explained by considering an example in which few values of the two variables are given the properties to be included are :</p> <ol style="list-style-type: none"> i. Sum up squares of deviation from regression line is minimum. ii. The point of intersection of regression lines at (X, Y). <p>Interpret by explaining the use of line of regression for forecasting and for estimating at "n" unknown values of independent variable.</p> <p>Explain the correlation co-efficient by explaining bivariate data in which both variables are random, the calculation of correlation co-efficient be explained by considering examples. The properties of correlations co-efficient be explained by considering:</p> <ol style="list-style-type: none"> i. $r_{xy} = r_{yx}$ ii. r lying between - 1 and +1.

	<p>iii. the value of correlation co-efficient does not change by the change of origin and scale and correlation can be obtained by geometric mean of the regression co-efficient.</p>
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5. Analysis of time series (1/8)

Contents	Scope
<p>Introduction to the concept of time series; nature of fluctuations, signal and noise, components of a time series, measurement of secular, semi averages, moving averages and least squares (linear), advantages and limitations of these methods.</p>	<p>Explain the time series as a series in which one variable is time occurring at specified intervals (non random and the other variable is random). Examples be given from Economics, Public Administration, Business administration, Trade and Commerce. Fluctuation in the time series be explained in terms of trend which is given in terms of components of a time series and random fluctuations as noise. Linear and quadratic forms of time series be considered. The linear and quadratic time series be compared with trend obtained by free hand, semi averages and moving averages method.</p>

REDUCED SYLLABUS ECONOMICS-XI

I. Nature and Scope of Economics

- A. Introduction
 - 1. Wants and satisfaction
 - 2. Goods and services
 - 3. Utility and scarcity
 - 4. Economic problems and its nature.
 - 5. Definition by:
 - a) Adam Smith
 - b) Alfred Marshall
 - c) Lionel Robbins.

II. Consumer's Behaviour and its Analysis

- 1. Definition
- 2. Meaning
- 3. Rationale
- 4. The law of diminishing marginal utility with table and graph.
- 5. The law of equimarginal utility or law of substitution with formula and diagram.
- 6. Indifference curve.
- 7. Definitions and Characteristics (graphical presentation).

III. Basic Tools of Statistics and Mathematics in Economics

- i.) Variables:
 - Continuous discontinuous, independent dependent.
- ii.) Linear equation with group.
- iii.) Quadratic equation.
- iv.) Simultaneous equations.

IV. Demand

- 1. Definition.
- 2. Law of demand.
- 3. Demand function and functional equation of demand.
- 4. Movement along the demand curve and shift in demand curve.
- 5. Price elasticity of demand (Arc & point) and methods of measurement.
- 6. Concepts of income elasticity and cross-elasticity of demand.
- 7. Factors influencing the elasticity of demand.
- 8. Practical uses of the concept of elasticity of demand.

V. Supply

- 1. Definitions stock and supply.
- 2. Law of supply.
- 3. Supply functional equation of supply.
- 4. Movement along the supply curve and shift in supply curve.
- 5. Elasticity of supply and its measurement.

6. Factors influencing the elasticity of supply.
7. Practical uses of the concepts.

VI. Equilibrium

1. Concept of equilibrium.
2. Equilibrium of demand and supply.
3. Equilibrium in price and equilibrium in output.
4. The effects on equilibrium in price and output due to change in demand and supply.

IX. Cost of Production

1. Definition, classification, Fixed and variable.
2. Total, average and marginal cost.
3. Relationship between total average and marginal cost.

X. Revenue Analysis

1. Definition.
2. Total marginal and average revenue under perfect competition and monopoly.
3. Price and output determination and short and long run under perfect competition and monopoly.

XI. Market

Meaning and significance of market.

1. Perfect competition and monopoly.
2. Short run and long run in perfect competition and monopoly.

REDUCED SYLLABUS COMPUTER SCIENCE-XI

1. OVERVIEW OF COMPUTER SYSTEM

- 1.1 Introduction to Computer
- 1.2 Computer Software

2. COMPUTER MEMORY

- 2.1 Introduction
- 2.2 Main Memory

3. CENTRAL PROCESSING UNIT

- 3.1 Inside CPU
- 3.2 CPU Operations

5. NETWORK COMMUNICATION AND PROTOCOLS

- 5.1 Introduction
- 5.2 Data Communication standards
- 5.3 TCP/IP

6. WIRELESS COMMUNICATIONS

- 6.1 Introduction

7. DATABASE FUNDAMENTALS

- 7.1 Introduction
- 7.2 Basic Database Terminologies
- 7.3 Planning a Database
- 7.4 Data Modeling and Entity Relationship Diagram
- 7.5 Relational Schema

8. DATABASE DEVELOPMENT

- 8.1 Introduction
 - (i) Identify various relational database management systems (MS Access, Open Office Base, SQL Server)
 - (ii) Select any suitable DBMS as an application for creating and maintaining databases
 - (iii) Explain the steps involved to create and save a database (**For Practical only**)
 - (iv) Explain the following in Database Environment:
 - Database Toolbar
 - Database Window
 - Objects
 - Tables
 - Queries
 - Forms
 - Reports

- 8.2 Working with Tables
- (i) Explain different ways of creating, saving and editing a table in database. **(For Practical only)**
 - (ii) Identify various available data types
 - (iii) Create a primary key and foreign key in the tables. **(For Practical only)**
 - (iv) Create and edit relationship among tables. **(For Practical only)**
 - (v) Use navigation buttons to navigate through records in a table. **(For Practical only)**
 - (vi) Add, modify and delete records from a table. **(For Practical only)**
- 8.3 Working with Forms
- (i) Explain different ways of crating, saving and editing a form in a database. **(For Practical only)**
 - (ii) Know different Form views
 - (iii) Use the navigation buttons to navigate through records displayed in a Form. **(For Practical only)**
 - (iv) Add, modify and delete records. **(For Practical only)**
 - (v) Use Form controls. **(For Practical only)**
- 8.4 Working with queries and commands
- (i) Explain different ways of creating, saving and editing a query in a database. **(For Practical only)**
 - (ii) Use following queries on database
 - SELECT (Where, Group by, Order by)
 - UPDATE
 - DELETE
 - INSERT
 - ALTER
- 8.5 Generating Reports
- (i) use the report wizard to generate a report. **(For Practical only)**
 - (ii) se various report layouts/styles to produce reports
 - (iii) Set the sort order of records that will appear on the report
 - (iv) Customized reports using queries (macros and arithmetic expressions) **(For Practical only)**
 - (v) Save, view and print the report. **(For Practical only)**

نصاب عربی گیارہویں جماعت کے لیے

- | | | |
|-----|---|------------------------------|
| ۱۔ | مِنْ هَدَى الْقُرْآنِ الْكَرِيمِ | التَّوْحِيدُ |
| ۲۔ | مِنْ هَدَى الْأَحَادِيثِ | مَكَارِمُ الْأَخْلَاقِ |
| ۳۔ | فِكْرَةُ إِنْشَاءِ بَاكِسْتَانِ | بَاكِسْتَانِ |
| ۵۔ | فِي الْحَمْدِ لِلَّهِ وَالثَّنَاءِ عَلَيْهِ | الشِّعْرُ |
| ۶۔ | مِنْ هَدَى الْقُرْآنِ الْكَرِيمِ | أَرْكَانُ الْإِسْلَامِ |
| ۷۔ | مِنَ الْأَسْوَةِ الْحَسَنَةِ | السِّيَرَةُ النَّبَوِيَّةُ |
| ۸۔ | الْمُخْتَرَعَاتُ وَ الْمَكْتَشَفَاتُ الْحَدِيثَةُ | الْحَوَارُ |
| ۱۰۔ | فِي الْمَذَاهِبِ النَّبَوِيَّةِ | الشِّعْرُ |
| ۱۳۔ | فِي مَكْتَبِ الْبَرِيدِ | الْحَوَارُ |
| ۱۴۔ | الْأَدَابُ | الْأَحَادِيثُ النَّبَوِيَّةُ |
| ۱۶۔ | الْخَلِيفَةُ عُمَرُ بْنُ عَبْدِ الْعَزِيزِ | الْمَشَاهِيرُ |
| ۱۷۔ | سُوقُ أَنْارِ كَلْبِي | الْحَوَارُ |
| ۱۸۔ | قَضَاءُ الْأَمِينِ | السِّيَرَةُ النَّبَوِيَّةُ |
| ۲۲۔ | مِنْ هَدَى الْقُرْآنِ الْكَرِيمِ | فِي الْعَدْلِ وَالْإِحْسَانِ |
| ۲۳۔ | فُكَاهَاتُ | الْحَكَايَاتُ وَاللَّطَائِفُ |
| ۲۴۔ | فِي الْمَطَارِ | الْحَوَارُ |
| ۲۵۔ | فِي الْحِكْمِ | الشِّعْرُ |

نصاب فارسی گیارہویں جماعت کے لیے

- ۱۔ ترجمہ سورۃ الحمد
- ۲۔ نعت (نظم)
- ۳۔ کلامِ خدا
- ۴۔ کتاب (منظومہ)
- ۵۔ سید علی ہجویریؒ
حُلفای راشدین
- ۷۔ امام غزالیؒ
نامہ بہ سلطان سنجر سلجوقی
- ۹۔ سدید الدین محمد عوفی
جوامع الحکایات
- ۱۱۔ مولانا جلال الدین رومیؒ
موسیٰ و شبان (نظم)
- ۱۲۔ حسن سنجر دہلویؒ
سُخنانِ خواجہ نظام الدین اولیاء
- ۱۳۔ ضیاء الدین نخشی
مُرورِ یدہائی از سِلکِ السُّلُوک
- ۱۵۔ خواجہ حافظ سیرازیؒ
عزّ لہائی حافظؒ (غزل)
- ۱۶۔ مولانا جامیؒ
گزیدہ ای از بہارستان
- ۱۸۔ حضرت سچل سرمستؒ
- ۲۰۔ درکلاس (مکالمہ)
- ۲۲۔ فاطمہ جناح
- ۲۳۔ علامہ محمد اقبالؒ
محاورہ مابین خدا و انسان (منظومہ)
- ۲۴۔ داستان پرواز

۲۶-	نامه ای به پسر
۲۸-	راشد منہاس، نشان حیدر
۲۹-	ارزش ورزش
۳۰-	در کتابخانه

(مکالمہ)

REDUCED SYLLABUS HEALTH AND PHYSICAL EDUCATION-XI

A. Physical Education

1. Physical Education and its importance
3. Scope of activities:
 - b. Recreational
 - d. Rules and fundamental skill of games:
 - i. Boys: Volleyball
 - ii. Girls: Volleyball
 - e. Rules and fundamental skill of Athletics:
 - i. Boys: Short put: 4x100 meters relay
 - ii. Girls: Short put: 4x100 meters relay

B. Health Education

1. Definition of health, its relationship to physical education
2. Human organism and how it works; functioning of the following systems (in detail):
 - b. Respiratory
3. **First Aid:**
 - a. Treatment of athletics injuries like sprain, strain, pulled muscle, sore muscle and cramp
 - b. Fractures: Types and treatment

**REDUCED SYLLABUS
PHILOSOPHY-XI
ELEMENTS OF PHILOSOPHY**

1. Introduction

- a. What is Philosophy?
- b. What are the specific philosophical questions?
- c. Philosophical Approaches Criticism/Speculation

2. Philosophy and Religion

- a. Questions asked in Philosophy and Religion
- b. Their treatment
- c. Difference
- d. Allama Muhammad Iqbal's Educational Philosophy

3. Philosophy and Science

- a. What does science try to understand?
- b. How is it different from philosophy?
- c. What role does philosophy play in the growth of science?
 - i. Interprets
 - ii. Criticizes
 - iii. Resolves conflicts
 - iv. Justifies

4. Knowledge

- a. Definition of knowledge
 - b. Sources of knowledge:
 - i. Rationalism
 - ii. Empiricism
 - iii. Intuition and Revelation
 - iv. Authority
- Introduction of basic philosophy of Imam Ghazali

5. Metaphysics

- a. Monism
- b. Dualism
- c. Pluralism
- d. School's of Idealism and Materialism

6. Ethics

- b. Ethical theories:
 - i. Golden Mean
 - ii. Utilitarianism
 - iii. Good will
- c. Islamic theory of Ethics

REDUCED SYLLABUS GEOGRAPHY-XI

- I. Understanding Geography**
 - 1. The Nature of Geography
 - 2. Scope
 - 3. Relationship with other Sciences

- II. The Earth Basic Concerns**
 - 3. The Earth's structure and composition

- III. Rocks**
 - 1. Formation classification and characteristics of rocks

- IV. Major Land Forms**
 - 1. Mountains Plateaus and plains

- V. Denudation**
 - 1. Weathering
 - 2. Erosion

- VII. The Atmosphere**
 - 1. Introduction
 - 2. Weather and Climate
 - 3. Distribution of Atmosphere and Pressure
 - 4. Winds
 - 5. Precipitation

- VIII. Oceans and Seas**
 - 1. The Oceans and Seas
 - 3. Ocean currents

REDUCED SYLLABUS EDUCATION-XI

I. Education

1. Importance and description of Education
2. Role and Scope of Education as a subject/discipline Teachers, Students, Content areas, Milieu, Environment Culture
3. Function of Education
4. Model of Education, Formal, informal and non-formal
 - Conversation
 - Transmission
 - Reformation

II. Aims of Education

1. Spiritual and Moral aims
2. Intellectual aims
3. Economic/ Vocational aims
4. Citizenship (Socio-cultural) aims

III. Foundations of Education

1. Introduction
2. Islamic foundation of Education
3. Importance of Education in Islam
4. Sources of knowledge Philosophical foundations
5. What is Philosophy, Philosophical foundation?
Ideology, Religious, Customs, norms & students

IV. Human Development

1. Explanation of the concepts of Human Development and Growth
2. Difference between growth and development with examples
3. Individual differences and teaching learning process

V. Learning

1. Meaning and definitions
2. Trail and error, imitation, insight (arising from intellectual rigour, learning by doing)
3. Law of readiness
4. Law of Exercise
5. Law of Effective
6. Readiness, motivation, interest Attention, meaningful/relevant, attitude

VI. Society Community and Education

1. Society and community (meaning and definition)
2. Explain the Interrelationship of society and Education

VII. Guidance and Counseling

1. Guidance and counseling (meaning and definition)
2. Needs & role of guidance and counseling in school
3. Forms of guidance (Education and Career)
4. Need and importance of counseling in schools

VIII. Curriculum, Syllabus and Textbook

1. Meaning and definition of curriculum
2. Differences between curriculum, syllabus and textbooks
3. Components of curriculum
4. Importance of Assessment and evaluation

REDUCED SYLLABUS OUTLINES OF HOME ECONOMICS-XI

Home Management:

1. Values and goals & standards as related to management in the home; discussion of some values and goal as observed by Pakistani families; importance of developing goals as a means of realizing values
2. Resources: human and materials:
 - b. Energy management-ways of avoiding fatigue
 - c. Simplifications
3.
 - a. Types of income
 - b. Budgeting and its advantages
 - c. Account keeping
5. Family Housing:
 - a. First Aid elementary
 - b.
 - i. Storage of summer and winter clothes and house hold equipment
 - ii. Storage of food stuff (perishable and non-perishable foods)
 - iii. Storage of books, shoes and extra furniture and other house hold equipment

Child Development:

6. Basic human needs, physical and psychological
 - a. Principles of growth and development from birth to 5 years
 - c. Understanding and guiding children: Characteristics of the toddler and the pre-school age child (development tasks), understanding and dealing with children problems such as fear, anger, jealousy, bed wetting and thumb sucking

REDUCED SYLLABUS
FINE ARTS HSSC-I
 With General Outline

Chapters	Points to be discussed Generally	Contents to be focused on:
Prehistoric Art	<ul style="list-style-type: none"> • General introduction to Term "Prehistoric" initial phase of diverse cultures. • Concept of B.C.E and C.E. • Paleolithic age, Mesolithic age, Neolithic age • Share the world map with the students indicating the primitive art; cave paintings, sculpture and structures. Give special reference of Potohar and Baluchistan in Pakistan. 	<ul style="list-style-type: none"> ✓ Hall of Bulls (painting) ✓ Venus of Willendorf (sculpture) ✓ Stone Henge (Architecture) <p><i>(discuss in detail time line, Area, tools used, material and technique of above mentioned)</i></p>
Egyptian civilization	<ul style="list-style-type: none"> • Introduction to Egyptian Civilization • Timeline, Geographical conditions, economic conditions, social set up, religious beliefs • Burial system (Mastaba and Pyramids) • Hieroglyphs and murals in tombs • Book of death with reference to the religious and artistic practices, a brief introduction. 	<ul style="list-style-type: none"> ✓ Great Pyramid of Khufu ✓ Rameses II (seated sculpture of Rameses at temple of Abu Simbel) ✓ Narmer palette 3000 B.C. ✓ Fowling scene from the tomb of Nebamun, Thebes, Egypt <p><i>(discuss the time line, area, plan, influences, symbolism, material and technique with special reference to the decorative aspect of the above mentioned)</i></p>
Indus Valley Art 4000-1800 B.C. Mohenjo-Daro & Harappa	<ul style="list-style-type: none"> • Mehrgarh, the pre-Indus period • Introduction to Indus valley civilization. Important cities; Mohenjo-Daro and Harappa • Timeline, Geographical conditions, economic conditions, social set up, religious beliefs, • Trade links with Mesopotamia and Egypt • Exploring, establishing and identifying the relationship of the Indus art and present 	<ul style="list-style-type: none"> ✓ Great Bath ✓ Seals <ul style="list-style-type: none"> ➤ Unicorn seal ➤ Bull seal ➤ Yogi seal ✓ King Priest ✓ Dancing Girl <p><i>(discuss in detail time line, area, plan, influences, symbolism, material and technique and decorative aspects of the above mentioned)</i></p>

	practices.	
Buddhist Art	<ul style="list-style-type: none"> • Introduction to Mauryan Empire 321-233 B.C. • Difference in treatment of Buddha's image in Hinayana and Mahayana sects • Significance of Ajanta Caves • Comprehension of the symbolism of Bodhisattva, Buddha, Mudras, Stupa and Ashokan Pillars 	<ul style="list-style-type: none"> ✓ The great stupa of Sanchi 3rd Century B.C.E ✓ Takht-e- Bahi Monastery Gandhara and Kushan schools 1st -3rd century A.D. ✓ Ajanta Caves <ul style="list-style-type: none"> ➤ Buddha with Blue Lotus ➤ Composition with White elephant <p><i>(discuss in detail time line, Area, plan, influences, symbolism, subject matter, materials, techniques, and decorative aspects of the above mentioned)</i></p>
CLASSICAL ART		
Greek Civilization	<ul style="list-style-type: none"> • Introduction to Greek civilization • General outline of architectural achievements of Greeks • Knowledge of the standardized proportions established in Greek period in art and architecture • Timeline, Geographical conditions, economic conditions, social set up, religious beliefs 	<ul style="list-style-type: none"> ✓ Disco bolos by Myron (Roman copy) • Parthenon (also introduce Greek orders) • Theater (Epidaurus, Greece) <p><i>(discuss in detail time line, Area, plan, influences, symbolism, subject matter, materials, techniques and decorative aspects of the above mentioned)</i></p>
Roman Civilization	<ul style="list-style-type: none"> • Introduction to Roman civilization • Architectural achievements of Romans. • Timeline, Geographical condition, geological condition, social set up, religious beliefs 	<ul style="list-style-type: none"> ✓ Portrait of Augustus as general from Primaporta, Italy; early 1st century of a bronze original of 20 BCE, marble, Rome. ✓ Colosseum, Rome, Italy, 70-80 BCE (also introduce roman order of architecture) <p><i>(discuss in detail time line, Area, plan, influences, symbolism, subject matter, materials, techniques and decorative aspects of the above mentioned)</i></p>

**FINE ARTS I
STUDIO WORK:**

**Details of Portfolio (End of Year's work)
2D FINE ARTS**

Max Marks: 50

Drawing / Painting

- Still Life 6
- Landscape 4
- Nature Study 3

Technique: as Per requirement

Medium: paper, lead and Colour pencil, Markers, Pen and Ink, water colours, Poster Colours, Gouache

Time line

Colour Wheel (12 divisions) 1

Gradation Chart 1

Art of Lettering (Calligraphy)

- English 1 in any style
- Urdu 1 in any Style

Technique: Exploring the Nib

Medium: Pen and Ink

Letter Head and Logo/ monogram

- Letter Head 1
- Logo 1

Technique: as Per requirement

Medium: As per choice

Repeat Pattern

- Repeat patterns 12

Technique: as Per requirement

Medium: Poster Colour, Gouache

Surface Embellishment

- Surface Embellishment 2
(on any surface e.g. Pots, Book jackets etc.)

Technique: as Per requirement

Medium: paper, lead and Colour pencil, Markers, Pen and Ink, collage

Computer Arts

- Computer Arts* (Posters, Cards, 2 (Size A4, Hard Illustrations) copy)

*Clipart and other soft wares for compositional awareness

Technique: Computer Arts

Medium: Computer

Photography

(Images collected for the compositional awareness and study of various light modes)

Technique: Any available camera 2 (minimum size: postcard)

3D APPLIED ARTS

Paper Sculpture

- Origami 1
- Papier Mache 1

Technique: Constructive/ Additive; paper Folding, Paper moulding

Material: Paper

The sculptures should not be smaller than 6 square inches

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.** No copied work shall be accepted as part of Portfolio.

REVISED SYLLABUS

PSYCHOLOGY-XI

I. Introduction to Psychology

1. Introduction Meaning and Definition of psychology as science of Behavior and mental processes
2. Goals of psychology
3. Clinical psychology
5. Educational Psychology
6. Environmental psychology
8. Business Psychology

II. Methods of Research

1. Meaning and significance of research
2. Types of Research:
 - i. Observation Method
 - ii. Experimental Method
 - iv. Case – study Method. Advantages

III. Nervous System and Behaviour

1. Meaning & relationship with behaviour
2. Neuron
3. Structure and Function of main parts of Brain

IV. Sensation and Perception

1. Brief introduction of sensation
 2. Anatomy of the Eye
 3. Anatomy of Ear
- Gestalt laws of perceptual organization.
1. Depth & Distance.
 2. Movement. Monocular cues for depth (only 3 cues Inter position, Linear perspective, Shadow) perception Binocular Cues for depth (only 2 cues) perception. Definition. Kinds of Illusion.

V. Learning and Remembering

1. Definition of learning
2. Basic Principles of learning
3. i. Conditioning ii. Classical iii. Operant
4. Definition of Memory
 - i. Sensory, Memory ii. Short-term Memory
 - iii. Long-term Memory
5. Measuring Memory
 - i. Recognitions Method
 - ii. Recall Method
 - iii. Saving Method
 - iv. Method of Rearrangement

VI. Motivational Behaviour

1. Definition
2. How they direct our Behavior
3. Primary motives (unlearned/ Physiological)
4. Hunger, thirst, temperature, Sex, Maternal
11. Elements affecting Motivation

VII. Personality

1. Definition
 - i. Introvert, Extrovert & Ambivert
 - ii. Freudian theory
3. Objective types:
 - i. Questionnaire, Interview
 - ii. MMPI
 - iii. Projective techniques
 - vi. TAT, Rorschach Inkblot

VIII. Emotional Behaviour

1. Meaning and definition
3. James-Lange theory (Feelings are physical)
4. Cannon – bard theory (Feelings are cognitive)
5. Role of Learning and Environment in emotion

IX. Higher Cognitive Process

1. Meaning & definition of cognition
2. Intelligence, General or specific Abilities
4. Stanford-Binate intelligence Scale, WAIS, WISE Army Alpha and Beta Intelligence
6. Cognitive operations in problem solving
 - i. Discussion
 - ii. Brain Storming
 - iii. Cooperative Learning

REDUCED SYLLABUS CIVICS-XI

I. Civics – what is it?

1. Definition
2. Nature
3. Significance
4. Utility

II. Civics – The Basic Concern

1. The harmonic relationship between the members of society e.g. child hold, socialization, gender, religion.
2. Individual as a member of state.
3. Family a basic social institution.
4. Nature & Significance of community
5. Society
6. Nation and Nationality & Muslim Ummah

III. State

- | | |
|--|-------------|
| 1. Definition | 2. Elements |
| 4. Distinction of state from
Government
Society
Nation | |
| 5. Conceptual basis of state in Islam. | |
| 6. Welfare State and equity issues with reference to gender, religion, are & social classes. | |

IV. Sovereignty

1. Definition
2. Salient features
3. Forms Manifestation of Sovereignty
4. Basic principles of Sovereignty in Islam.

V. Government

- | | |
|--|-----------------|
| 1. Meeting | 2. Democracy |
| 3. Parliamentary | 4. Presidential |
| 6. Legislature | 7. Executive |
| 8. Judiciary | 9. Definition |
| 10. The role of Good Governance in Islamic Democratic Government | |

VI. Law and Related Matters

- | | |
|-----------------|------------------------------|
| 1. Meetings Law | 2. Sources |
| 3. Kinds | 4. Meaning |
| 5. Sources | 6. Objectives Meaning of Law |

VII. Citizen and Citizenship

1. Definition
2. Qualities of good citizenship
3. How citizenship acquired and lost?
4. Definition
5. Rights and responsibilities of a citizen in Islamic perspective

VIII. Constitution

1. Definition of constitution
2. Kinds of constitutions
3. Characteristics of a good constitution

IX. Political Dynamics

1. Meeting
2. Formulation
3. Agencies
4. Conditions for sound public opinion

REDUCED SYLLABUS SOCIOLOGY-XI

I. Introduction of Sociology

1. Definition
2. Subject matter
5. What Science is!
6. Sociology as a Science
8. Role of Sociologists in the society

II. Social Action and Social Interaction

1. Definition of Social Action
2. Essentials of Social Action
3. Importance of studying Social Action
4. Definition of Social Interaction
5. Essentials of Social interaction
6. Importance of Studying Social Interaction
7. Distinction between social action and social interaction

III. Social Group and Social Processes

1. Definition
2. Significance
3. Types as below:
 - i. Primary and Secondary Groups,
 - ii. Formal and Informal Groups,
4. Definition and forms of social processes:
 - Cooperation
 - Competition,
 - Conflict,
 - Accommodation,
 - Assimilation

IV. Social Stratification

1. Meaning
2. Determinants
5. Merits and demerits
6. Meaning
7. Class – economic distribution
9. Horizontal and vertical Social Mobility

V. Social Norms Status and Role

1. Meaning
2. Significance
3. Folk Ways
4. Mores
5. Laws

8. Meaning of Status and Role
9. Types of Status – achieved and ascribed

VI. Values and Belief

1. Definition of values and belief

VII. Society

1. Definition
2. Elements
3. Significance
4. Rural and Urban Society

VIII. Culture and Civilization

1. Meaning of culture and civilization
2. Significance of culture and civilization
3. Uniformities and variabilities of culture

IX. Social Institution

1. Meaning
2. Significance
3. Family
4. Education
5. Religion
6. Polity
7. Economy
8. Recreation

REDUCED SYLLABUS LIBRARY SCIENCE-XI

History of the Book and Libraries

1. Definition and history of Libraries Ancient time
2. Role of Modern libraries in:
 - a. Education and research
 - b. Science and Industry
3. Purpose and functions of various kinds of libraries
 - a. Academic (School and College Libraries)
 - b. National
 - c. Public
 - d. Special (govt. Industry and special subject libraries)
4. Art of book-binding:
 - c. Chemicals used for the preservation of library materials
5. Documentation of library materials
 - a. Books:
 - i. Cataloguing
 - ii. Indexing
 - iii. Bibliography
 - b. Non-Book Materials:
 - i. Journals
 - ii. Newspapers
 - iii. Maps and charts
 - iv. Microfilms, Microfish, Microcards etc
 - v. Tapes, discs etc
6. Use of books and libraries and reader services:
 - a. Formation of materials i.e. title paging, contents, foot notes, references, indexes and bibliography
 - c. Compilation of Bibliography and indexing

REDUCED SYLLABUS
CIVICS
(For Non-Muslims)
(In lieu of Islamic Education)

The outline of course contains the following major themes and their contents:

I. Man and Society

- a. Sociability of man
- b. Survival and development
- c. Impact of social environment on man
- d. Process of socialization
- e. Nature of Associations, their kinds (Voluntary/Compulsory) and functions
- f. Concept of Family, Nation, Millat and State
- g. Interdependence of the Individual and Society

II. Individual and State

- a. Meaning of State and its elements (Population, Territory, Government and Sovereignty)
- b. Islamic concept of State
- c. Functions of State (Defence, Law and Order, Welfare etc)
- d. Organs of government Legislature, Executive and Judiciary
- e. Forms of Government
- f. Law, Liberty and Equality

IV. Citizenship

- d. Qualities of good citizenship
- e. Rights and Duties of citizen in a State
- f. Fundamental Human Rights

V. Rights and Duties of a Citizen in Pakistan

- a. Rights and Duties of citizen in Islamic State with special reference to Khutba-e-Hujjat-ul-Wida
- c. Rights and Duties of non-Muslims in Pakistan under the constitution

REDUCED SYLLABUS PAKISTAN CULTURE-XI

I. Culture

- A. Meaning, elements and scope
- B. Concept of Islamic Culture

II. Pakistan: The land and the people

- A: The Land
 - The Mountainous Zone: External Security and Cultural inflow; Northern Ranges and Southern Mountains
 - Arid Zones: Pastoral and Nomadic Life: The Plateaus and the Deserts, the Coastline: Maritime Links
- B: The People
 - Racial Mix-Regional Traits, The Tribal System, Religious Groups, Occupational Groups, Urban-Rural Communities

III. The Making of Pakistan

- B. The Arab Period: Foundation of Islamic Society
- D. Socio-Political Decline: Socio-Economic Set-backs
- E. The Beginning of Muslim Resurgence: Steps towards Socio-Economic Uplift, Struggle for Homeland, Sayyid Ahmad Khan, Muhammad Ali Jinnah (Quaid-i-Azam), The Birth of Pakistan

IV. Pakistan Culture

- A. Ideological Moorings (Islam): The Holy Quran and the Prophet Oneness of Allah- Tuahid, Prophethood-Risalat Knowledge-Ilm, Deeds-Amal, the Hereafter-Akhrat
- B. Social Patterns: Tribal, Feudal, Rural and Urban
- C. Education

V. Emerging Trends

New Orientations, Islamization, Education, Literature, Socio-Economic Trends

REDUCED SYLLABUS PRINCIPLES OF ACCOUNTING

1. Definition, basic concepts, Double Entry System of Book? Debiting, its objectives and advantages
2. Accounting Cycle: Accounting equation Journal, Ledger and Trial Balance
3. Cash Book
4. Banking Transactions: Kinds of bank accounts and procedure of recording of banking transactions; cheques; cheque register; bank reconciliation statement, its objectives and preparation (**Exclude revised cash book and double column cash book**)
7. Rectification of Errors: Kinds of error-correction of errors after and before closing the books of accounts
8. Financial Statement: Trading and profit and loss account income statement and balance sheet-form and its preparation
9. Adjustments and Closing Process: Prepaid and outstanding expenses; Accrued and unearned income; provision for Bad Doubtful Debt; Provisions for Discount; Depreciation, interest on capital and drawing

LIST OF EQUIPMENT, LAB-REQUIREMENTS

Book Keeping machines, Overhead Projectors, Slide Projector, Scientific electric calculators, Amount perforator on Cheque, Bank Draft, Business film though T.V.

REDUCED SYLLABUS PRINCIPLES OF ECONOMICS

MICRO ECONOMICS

What is Economics about?

- a. The nature, (Definitions) and Methods of Economic Analysis

1. Demand and Supply:

- a. Law of demand, Changes in demand, Elasticity of demand, Measurement of elasticity of demand (outlay method)
- b. Supply vs Stock, Law of supply
- c. Equilibrium between demand and supply
- d. Effects of changes in demand and/or supply on market equilibrium

2. Consumer Demand Theory:

Law of Diminishing Marginal utility (cardinal approach)

3. The Cost and Revenue of a Firm:

Classification of cost: Fixed Cost, Variable Cost, Total Average Cost, Marginal Cost (Concepts and Graphical Representation)

Total Revenue, Marginal and Average Revenue (Concepts and Graphical Representation)

4. Laws of Returns: (Law of Variable Proportions)

5. Price and Output Determination:

Concept of Perfect Competition, Price and Output determination under-Perfect Competition

6. Resource Pricing:

- b. Factors of Production (brief introduction)
 - (i) Land and its Characteristics
 - (ii) Labour and its Characteristics
 - (iii) Capital and its Importance
 - (iv) Organization and its Forms (introduction)

MACRO ECONOMICS

1. National Income

Measurement of National Income:

- a. National Income at factor Price
- b. National Income at Market Price
- c. Expenditure approach to income measurement
- d. Concept of National Income
 - i. GNP = Gross National Product
 - ii. GDP = Gross Domestic Product
 - iii. NNP = Net National Product
 - iv. NI = National Income
 - v. PI = Personal Income
 - vi. DPI = Disposable Personal Income
 - vii. PCI = Per-Capita Income

2. Money

- a. Money (Definition)
- b. Functions of money
- c. Inflation and its effects

3. Business Cycle

- a. Phases of Business Cycle

4. International Trade

- a. Introduction to International Trade
- b. Balance of Trade and Balance of Payment

5. Public Finance

- a. Cannons of Taxation
- b. Zakat and Ushr

REDUCED SYLLABUS

PRINCIPLES OF COMMERCE

1. Introduction

Definition of Commerce, its importance and scope. Branches of commerce, Trade, Insurance, Finance, Marketing, Warehousing and Industry, Essentials of establishing a business house and qualities of a good businessman

2. Types of Commercial Organizations

- a. Sole Proprietorship:
Definition, Features, merits and demerits
- b. Partnership:
Formation Features, Partnership Agreement/Deed Advantages, Disadvantages and Dissolution
- c. Joint Stock Company/Corporation:
Special Feature, Kinds, Formation; Memorandum of Association, Articles of Association, Certificate of Registration, Prospectus, Certificate of Commencement of Business, management: share holders, Directors and Managing Director, Winding up
- d. Cooperative Society:
Features, kinds, advantages and disadvantages; Basic concepts of Musharqa, Mudarba

4. Trade

Kinds:

- a. Home Trade:
Whole sale, Retails, Middlemen
- b. Foreign Trade

Import:

Import procedure, documents used

Export:

Export procedure, documents used and role of Export Promotion Bureau

REDUCED SYLLABUS BUSINESS MATHEMATICS

1. Business Arithmetic:
 - a. Ratios and Proportion
 - b. Percentage
 - c. Discount
 - d. Commission
 - e. Profit and Loss
2. Interest
 - a. Simple Interest
 - b. Compound Interest
3. Equations
 - a. Linear Equations
 - b. Quadratic Equations (Factorization and quadratic formula)
 - c. Simultaneous Equations

➤ **Equations reducible to quadratic equations are excluded.**
4. Matrices and Determinants