ENGLISH

Mid Term
March
English 1: Essay, Verbs & Verb Forms.
English 2: a) Merchant of Venice : ACT IV
   b) Poetry: Small Pain in my Chest
   c) Prose: Hunger
   d) The last Leaf

April
English 2: a) M.O.V Act IV
   b) The Professor
   c) God Lives in the Panch

May/June
English 1: Comprehension (Aural) & Transformation of sentences.
English 2: a) M.O.V Act IV
   b) Stopping by Woods on a Snowy Evening
   c) A Doctor’s Journal entry for August 6, 1945
   d) The Bet

August: First Selection: The Above Mentioned Syllabus including both English 1 & English 2 syllabus of std IX.

September/ October
English 1: Comprehension (Written) & Transformation of sentences.
English 2: a) M.O.V I-V Acts (Revision)
   b) If Thou Must Love Me.....
   C) Princess September
   d) I Believe
   e) The Tiger in the Tunnel

December: Revision & Second Selection

1st Unit Test
English 1: Grammar
English 2: Act IV (M.O.V) Lines 1-455
   Small Pain in my Chest and The Last Leaf

2nd Unit Test
English 1: Grammar
English 2: Act V (M.O.V)
   A Doctor’s Journal Entry
   The Bet.

Project: Date of Submission
English 1: 30.06.14
English 2: 30.10.14

***********************************

CHEMISTRY – X - 2014-15

1ST SELECTION EXAMINATION

March to 10th April

a) Organic Chemistry – Alcohol, carboxylic acid

b) Mole concept & Stoichiometry, Gay lussac’s law of combining volumes; Avogadro’s law, idea of mole, Atomicity of hydrogen, oxygen, nitrogen & chlorine, Relative atomic masses & relative molecular masses. Deduction of simple & molecular formula from the percentage composition of a compound.

11th April – 30th June

Acid, Bases & salts

Simple defns., in terms of molecules & their characteristic properties

Ions present in mineral acid, alkalis, use of indicators.

Physical & chemical properties of Acid & bases.

Salts & their preparation:

   a) Defn. of a salt : type of salt.
b) Deliquescence, efflorescence, water of crystallisation.
c) Preparation of salt.
d) Analytical chemistry

July 1\textsuperscript{st} – 1\textsuperscript{st} August

Electrolysis:

a) Electrolytes & non-electrolytes, defns. & examples.
b) Substance containing molecules, ions, ions only, both molecules & ions.
c) An elementary study of migration of ions.
d) Application of electrolysis.
e) Acid, bases & salts as electrolytes.

\textbf{Note:} Org. Chemistry, HCl, NH\textsubscript{3} & Properties of periodic table will be included in 1\textsuperscript{st} selection.

2\textsuperscript{nd} Selection

1\textsuperscript{st} September – 25\textsuperscript{th} September

Metallurgy

a) Defn. of metals & non-metals.
b) Position of metals
c) Comparison of metals & non-metals
d) Reduction of metallic oxides.
e) Extraction of metals based on the activity series.
f) Corrosion of iron & its preservatives.
g) Metals & their alloys.

6\textsuperscript{th} October – 31\textsuperscript{st} October

Nitric Acid: Preparation, properties & uses.

1\textsuperscript{st} November – 30\textsuperscript{th} November

Sulphuric acid – Preparation, properties & uses.

1\textsuperscript{st} Unit Test – Mole concept

2\textsuperscript{nd} Unit Test – Metallurgy, Nitric acid.

\textbf{NOTE: 1\textsuperscript{st} Selection}

Mole Concept & Stoichiometry

Organic Chemistry

Acids, Bases & Salts

Electrolysis

2\textsuperscript{nd} Selection:

1. All topics will be included in 2\textsuperscript{nd} selection examination.

\textbf{BIOLOGY- 2014-15}

1\textsuperscript{st} Selection Examination

1. Absorption by Roots
2. Transpiration
3. Photosynthesis
4. Circulatory System
5. Excretory System
6. Endocrine system
7. Nervous system

2\textsuperscript{nd} Selection Examination

Chapter 1 to 7 + Cell

8. Reproductive system
9. Population
10. Aids to health & health organisation
11. Cell division
12. Genetics
13. Pollution

MARCH

1\textsuperscript{st} Week – Spinal cord – structure

- Reflex arc
- Peripheral nervous system
- Reflexes
2nd Week – Structure & Function of eyes
   - Eye defects
3rd Week – Structure & Function of ear.

4th Week. 8. - Endocrine Systems:
   - General properties of hormones
   - Endocrine glands – Adrenal Glands, pancreas, thyroid, pituitary, Feedback mechanism

APRIL
1st Week – 1. Absorption by Roots
   - Active Transport
   - Plasmolysis
   - Root pressure

2nd Week – Some Experiments on absorption & conduction of water.
   - Forces Contribution to ascent of sap.

3rd Week 2. Transpiration
   - Definition & concept
   - Demonstration
   - Measurement
   - Kinds

4th Week – Mechanism of stomatal transpiration
   - Factors, significance, guttation, Bleeding

MAY
1st Week – 3. Photosynthesis
   - What is photosynthesis
   - Structure of chloroplast
   - Chlorophyll
   - Stomatal opening

JUNE
3rd Week – Process of Photosynthesis
   - Light Phase
   - Dark Phase
   - Adaptation in leaf for photosynthesis
   - End products of photosynthesis

4th Week – Factors affecting Photosynthesis
   - Experiments on photosynthesis
   - Importance of photosynthesis

JULY
9. Reproductive system
1st Week - General introduction of reproduction
   - Male Reproductive system

2nd week – Female Reproductive system
   - Fertilization

3rd Week – Importance & Pregnancy
   - Placenta

4th Week – Parturition
   - Some important terms
**AUGUST**

1\textsuperscript{st} Week 10. Cell Division

- Types of cell division
- Mitosis

2\textsuperscript{nd} Week – Meiosis

3\textsuperscript{rd} Week – Chromosomes – Structure

4\textsuperscript{th} Week – What are genes.

**SEPTEMBER**

2\textsuperscript{nd} Week – Genetics

- Variation & Heredity
- Autosomes & sex chromosomes
- Description of many more terms

3\textsuperscript{rd} Week – Sex determination

- Genes & their alleles
- Phenotype & Genotype

4\textsuperscript{th} Week: - Punnett square

- Sex linked inheritance

**OCTOBER**

1\textsuperscript{st} Week – Mendel’s experiments on inheritance

2\textsuperscript{nd} Week – Mendel’s law of inheritance

3\textsuperscript{rd} Week – Mutation

4\textsuperscript{th} Week – Revision

**NOVEMBER**

1\textsuperscript{st} – 4\textsuperscript{th} Week – Revision chapter wise.

**PHYSICS: -2014-15**

1\textsuperscript{st} Unit Test:

Date of commencement of examination: 13\textsuperscript{th} June 2013, Thursday.

1. Work Power Energy
2. Refraction through plane surface and lens.

**FIRST SELECTION EXAMINATION:**

Date of commencement of examination 12\textsuperscript{th} August 2013, Monday.

1. Force
2. Work Power Energy
3. Refraction through plane surfaces.
4. Refraction through lens.
5. Spectrum
6. Machine
7. Calorimetry

**SECOND UNIT TEST**

Date of commencement of Examination: 28\textsuperscript{th} October 2013, Monday

1. Current Electricity
2. Electric Power and house hold circuits.
3. Electromagnetism.

**SECOND SELECTION EXAMINATION:**

Date of commencement of examination 7\textsuperscript{th} December 2013, Saturday

1. Force
2. Work Power Energy
3. Refraction through plane surface.
4. Refraction through lens.
5. Spectrum
6. Machine
7. Calorimetry
8. Current Electricity
9. Electric Power and house hold circuits
10. Electromagnetism
11. Thermionic Emission and Radioactivity.
12. Sound

MONTH WISE BREAK UP :

MARCH – Refraction through plane surface

APRIL – Refraction through lens

MAY + JUNE – Spectrum, Machine

JULY – Calorimetry

AUGUST – Current Electricity, Electric Power and House hold circuits

SEPTEMBER – Electromagnetism

OCTOBER – Thermionic emission and Radio activity

NOVEMBER – Sound

***************************

HISTORY & CIVICS – 2014 -15

SECTION :A: Civics

1. High Courts & Subordinate Courts

a) High Courts: Composition, qualification of judges, appointment, condition of service, powers, jurisdiction.
b) Subordinate courts: Distinction between court of the District Judge and session court.
c) Lok Adalats: Meaning and advantages.

2. The Union Executive: (July - August)

a) The President: Election, term of office, powers qualifications, composing of Electoral college, term of office, impeachment procedure, power and position of the President.
b) Vice President: Qualification, term of office and functions.

SECTION B: Modern Indian History

3. Muslim League: (March) - factors leading to the formation of the Muslim league and its objects.

4. The National Movement (1914 - 1919)- (April) –

a) Lucknow Pact – significance.
b) Home Rule League – Objectives
c) August Declaration – significance.

5. The National Movement (1919 - 1934)-(June July) –

a) Mahatma Gandhi – Methods and direction given by him.
b) Khilafat and Non-cooperation Movement.
c) Civil Disobedience Movement (till 1934)

SECTION C : The Contemporary World.

6. The United Nations: (May) –

a) Composition and functions of General Assembly, Security council and the
International court of justice. B) Functions of UNI & UNESCO.

Portion of I Unit Test – 1) High Court
2) Muslim League
3) The United Nations

Portion for I selection Test:

Civics:
1. The Union Parliament.
2. The Union Executive – The President & The Vice President.
3. The Supreme Court
4. The High Court.

HISTORY (INDIAN)
1. The First War of Independence 1857
2. Factors promoting growth of nationalism and Foundation of Indian National Cong.
3. Programme and Achievement of Early Nationalists.
5. The Partition of Bengal.
6. The Muslim League.
8. The National Movement (1919 - 1934)

History (Contemporary World):
1. The First World war
2. Rise of Dictatorship
3. The United nations
4. Major Agencies of the United Nations

FINAL TERM
Section: CIVICS
7. The Union Executive: (August - September):
Prime Minister & Council of Ministers.

a) Appointment, tenure, formation and functions.
b) Collective and Individual responsibility.
c) Distinction between council of ministers and cabinet.

SECTION B : Indian History
8. Quit Indian Movement: (September - October) –
Causes and Impact.

9. Forward Bloc and INA (September - October) –
a) Objectives and achievements.

10. Independence and Partition of India – (October - November):
a) The cabinet Mission
b) Conflict between congress and Muslin League.

SECTION C : The contemporary World:
11. The Second World War : (September - October)
a) Causes and consequences of World War II.
b) Cold War – Causes, consequences and the end of Cold War.

12. Universal Declaration of Human Rights:
a) Definition and violation of Human Rights.

13. Non- Aligned Movement: (October - November)
a) Factors responsible.
b) Objectives
c) Role of Jawaharlal Nehru.
d) Name of the architects of NAM.

2nd Selection Test:
The Entire Course.

********************************************************************************

GEOGRAPHY- X- 2014-15

MARCH - APRIL

PART II

Location Extent and Physical Features:

2. Map work – a) location 23½°N, 82½°E, water bodies and island groups.
   b) Relief Map I – mountain, peaks & passes.
3. Origin of the Northern plains- fracture, rift valley, bending.

4. Regional Division of Ganga and Indus & Brahmaputra from source to mouth.
   a) River Indus & Brahmaputra, coastal and deltaic plains.
   b) Peninsular rivers.
6. Origin of Peninsular Plateau
   a) example of tilled, dissected & partly volcanic.
7. Map Work – a) mountains 7 peaks, passes of peninsular plateau along with directed parts.
   a) Coastal plain division & W+E ghats.

May-June-July - 1st Unit Test – Topics 1 to 7 with related Map-work.

CLIMATE

8. a) Mechanism of Monsoons, b) Climatic seasons, c) Each season in detail along with self explanatory diagrams.

Soil and Natural Vegetation

a) Characteristics of each soil and natural vegetation type and their uses.
b) Map work of soil & natural vegetation. (Separately done)
c) Soil erosion – causes & prevention.

AUGUST

c) Natural vegetation – associated terms & need for preservation.

9. Water Resources
   a) Need for Irrigation – refer to multipurpose projects.
   b) Need for conservation – rain water harvesting.
10. Mineral Resources
   a) Distribution & uses of coal, petroleum, iron ore, manganese, bauxite, limestone.
   b) Map work to show main fields.
   c) Factors affecting localization of Industries in general.
   d) Mineral based industries – iron & steel heavy engineering petrochemicals, electronics.
   e) Table with major industries & location.

1st Selection Test – Topics 1 to 10 related Map Work.

SEPTEMBER:
11. Agriculture – a) crops & requirements from table & some from chapter.
   a) Agro based industries – sugar, cotton, silk, woolen & jute textiles – requirements & conditions for localization

12. Transport:
   a) Roads advantages, disadvantages
   b) Railways Ports, different types of roads & railways
   c) Airways,             
   d) Water ways

OCTOBER:
13. Waste Generation & Management
   a) Chapters from text book
   b) Map work with major ports, towns, cities
   c) Population distribution

NOVEMBER:

PART I
Interpretation of TOPO Sheets
a) Introduction to contours – numbers, cross section, VI, HE, scale.
b) Representation throughs contour drawing and cross sections-
   a) Slopes – dip, scarp, convex, concave.
   b) Plain with knoll
   c) Conical hill with peak – spot height, triangulated height.
d) Plateau, cliff.
e) Valley – spur, water/ all rapids.
f) Ridge col and saddle
   g) Scale, drainage & settlement patterns.
h) Direction and distances.
i) Grid Reference – 4 & 6 fig. grids.
j) Map reading.

SECOND SELECTION – Entire Syllabus.

*******************************
MATHEMATICS -2014-15

1st Selection Test

1. Compound Interest
2. Sales tax and VAT
3. Banking
4. Share and Dividend
5. Linear In equation
6. Quadratic equations
7. Problems based on quadratic equation.
8. Ratio and proportion
9. Reminder & factor theorem
10. Matrices
11. Co-ordinate Geometry
12. Trigonometry
1st Unit Test
1. Compound Interest
2. Sales tax & VAT
3. Banking
4. Share and Dividend

2nd Unit Test
1. Linear in equa
2. Quadratic Equation
3. Problems on Quadratic Equation
4. Ratio and Proportion

2nd SELECTION TEST
1. All the topics of 1st selection Test are included.
2. Circle (geometry)
3. Locus
4. Symmetry
5. Similarity
6. Cone
7. Sphere
8. Statistics
9. probability (Mean, Mode, Median)

BREAK UP OF THE SYLLABUS:

March: Compound Interest, Sales tax & VAT, Banking
April: Share and Dividend, Linear In equation
May: Quadratic equation, World Problems based on it.

June: Ratio & Proportion, remainder & factor theorem.
July: Matrices, Co-ordinate Geometry
August: Trigonometry
September & October: Circle (Geometry), Locus, Symmetry
November: Similarity, Cone, Sphere, Statistics
December (Till 10th): Probability

*******************************************************************************

HINDI - 2014-15

भाषा - (Section A- 40 marks)
दोनों परीक्षाओं के लिए — सरस हिंदी व्याकरण
1. प्रस्ताव—लेखन
2. पत्र —क. औपचारिक ख. अनौपचारिक।
3. भाव—ग्रहण
4. व्यावहारिक व्याकरण

साहित्य Section B (40 Marks)
गद्द संकलन— 1. मेरे मास्टर साहब
2. में ओर मेरा देश
3. सच्ची बीतता।
काव्य चंद्रिका — 1. नीति के दोहे I, II
2. मानवता
3. जीवन का झरना।

SECOND SELECTION

SECTION - A
भाषा— (Section A) - सरल हिंदी व्याकरण

SECTION – B
साहित्य — गद्द संकलन के अध्याय 1 — 13 के साथ:
(1) श्रम की प्रतिष्ठा (2) भीड़ में खोया आदमी।
काव्य चंद्रिका के अध्याय – 1-13 के साथ:
(क) निर्माण (ख) सम्मिलित।

मार्च : 1. पत्र, 2. प्रस्तावना, 3. मेरे मास्टर साहब,
4. नीति के दोहे (क) कबीर (ख) रहीम
अप्रैल – 1. पत्र, 2. प्रस्तावना, 3. मैं और मेरा देश,
4. मानवता
जून – 1. पत्र, 2. प्रस्तावना, 3. सच्ची वीरता 4.
जीवन का झरना।
जुलाई – 1. पत्र, 2. प्रस्तावना,
3. मैं और मेरा देश (revision),
अगस्त – 1. पत्र, 2. प्रस्तावना, 3. मानवता
(revision),

2nd Selection Test:
भाषा - (Section A- 40 marks) - सरस हिंदी
व्याकरण
साहित्य – (Section B)
सितंबर – 1. पत्र, 2. प्रस्तावना, 3. श्रम की प्रतिष्ठा,
4. निर्माण,
अक्टूबर – 1. पत्र, 2. प्रस्तावना, 3. भीड़ में खोया
आदमी, 4. सम्मिलित।
नवम्बर – 1. पत्र, 2. प्रस्तावना, 3. चप्पल, 4.
हिमालय।
दिसंबर – Revision.
&&&&&&&&&&&&&&&&&&&&&