

**SCHEDULE OF WORK**

**CLASS 1<sup>ST</sup>**

**ENGLISH(UNIT-1)**

My English Reader(L-1 to 9)

Poem:-L-11

Picture reading, Answering questions

Sound Blends:-Reading and Dictation

Practice book:-Page No(1 to 27)

**Maths**

**Unit(I)**

**1).Comparisons (Unit-I of primary Mathematics)**

**2).Number Concept (Unit-II of primary mathematics)**

**3).Counting (100 to 399)**

**4).Table(2 and 3)**

**SCIENCE**

**Unit(I) April to August**

**L-1:- More about me**

**Activity:- Draw or paste pictures of five sense organs.**

**L-2:-Keeping clean**

**Activity:- Draw or paste pictures of five objects that keep ourselves clean**

**L-3:- Our Food**

**Activity:-Paste pictures of good and bad food.**

**L-4:-Keeping Healthy**

**Activity:-Paste pictures of four things that keep ourselves healthy**

**Hindi**

**Unit(I)**

**1). आ , इ ,ई,उ की मात्रा लिखना और पढ़ना ।**

**2). कविता - राजा बेटा , शाम हुई।**

**3). भाषा अभ्यास - 1 से 7 तक प्रश्न उत्तर मौखिक**

**4). श्रुतलेख**

**5). पठनकला**

**6).वाक्य बनाओ**

**7).शब्द लड़ी**

**SCHEDULE OF WORK CLASS 2<sup>nd</sup>**

**ENGLISH(UNIT-1)**

**My English Reader:- L.No.1 to 6**

**Poem:- Little Pussy, Rainbow**

**Picture Reading:- Answering question**

**Sound blends-Reading and dictaion**

**Practice Book-Lesson No.1 to 6**

**Hindi(UNIT-1)**

**1). भाषा माधुरी - पाठ 1 से पाठ 8 तक वाचक और लिखत प्रश्न उत्तर।**

**2). भाषा अभ्यास - 1 से 8 तक लेखन |**

**3). कविता सीखो.**

**4). श्रुतलेख - आ से लेकर उ की मात्रा तक**

**5).वाक्य रचना, शब्द लड़ी**

**6). पठन कला**

**विधि - सीखो कविता हाव -भाव सहित वाचन**

**Maths(UNIT-1)**

1).Number till 100

(2) Number upto 999

3).Addition

(4) Table -2 to 7

Activity:- Based upon showing a number on abacus and writing number name .

Activity:- Based upon arranging number cards showing 3 digit number in ascending or descending order.

### Evs (UNIT-1)

L-1:-More about me

Activity :-1).Activity based on identification of body parts .

2).Flash card activity based on functions of different body parts.

L-2:-Personal cleanliness & good habits

Activity:-Collage making on the things that we use to clean our body .

L.3:- Activity:-1).Activity on food we get from plants and animals.

2).Activity on healthy and unhealthy food.

L4.Clothes

Activity:-Draw /paste pictures of clothes that we were in different seasons .

L-5.A house to live in

Activity:-Collect different samples /pictures of different type of material used to make a house.

## CLASS – III

## SUBJECT – ENGLISH

### **Class 3rd (reader book)**

1) I speak,I say ,I talk

2)Dolphins

3)At the zoo

4)The Canary

Writing skills :Essay writing

### **Practice Book**

Unit-1(naming words)

Unit-2(replacing words)

FA-2 Syllabus of English (3rd class)

1) The God of River

2)Trees are the kindest thing I know

3)Minu and Dino

Practice Book(English )

1)How many?(Numbers)

2)Describing words

3)Verbs

Writing Skills : letter writing

Reduced syllabus

1)The ostrich and the hedgehog

2)Trees

Activity of FA1 (ENGLISH)

1) Noun Hunt

FA2 Activity

1) Any 5 slogans on trees

## SUBJECT – HINDI

(Fa1 syllabus)

1, भोलूभुलकड़ (केवलपढ़नेकेलिए)।

(भाषामाधुरी + भाषाअभ्यास )

2. चतुरकौवा (भाषामाधुरी + भाषाअभ्यास)
  3. हाथीऔरचिड़िया  
( भाषामाधुरी + भाषाअभ्यास)
  4. चींटीनेपाठपढ़ाया (केवलपढ़नेकेलिए)  
(भाषामाधुरी + भाषाअभ्यास)
  - fa1 गतिविधि- शब्दलड़ी  
FA2 syllabus-----
  5. बहादुरदोस्त  
( भाषामाधुरी + भाषाअभ्यास)
  6. घमंडीमक्खी  
(भाषामाधुरी + भाषाअभ्यास)
  7. दादाजी  
(केवलभाषाअभ्यास)
  8. अगरपेड़भीचलतेहोते  
( केवलभाषाअभ्यास,)
- FA2 गतिविधि- अपनेनाना-नानीयादादा-दादीकेजन्मदिनपरएकआकर्षककार्डबनाएं

## SUBJECT – MATHS

- FA – 1  
UNIT – 1 NUMBERS UPTO 9999  
UNIT 2 ADDITION  
TABLES- 2 TO 10  
ACTIVITY – ACIVITY BASED ON NUMBERS CONCEPT (UNIT)  
FA -2  
UNIT -3 – SUBSTRACTION  
UNIT 4 – MULTIPLICATION  
TABLES – 11 TO 15  
ACTIVITY – ACTIVITY BASED ON ORAL MULTIPLICATION  
TERM 1 = ( FA 1 +FA 2)

## SUBJECT – SCIENCE

- F.A 1syllabus for class 3 science  
Chapter 1-- My body  
Chapter 2—Plants (ii)  
Activity: Identification of sense organs and their functions.  
2Draw the diagram of plant and label its parts.  
Reduced Chapter : Plants  
F.A 2 Syllabus  
Chapter 3----Leaf  
Chapter 4--- Importance of plants.  
Chapter--5 Animals  
Activity: Make a picture of animal or a bird using different types of leaves.  
2 paste a leaf and label it  
3. Paste some plant products on a picture of a tree.

## SUBJECT – SOCIAL SCIENCE

Class 3rd FA 1 Syllabus

Chapter 1 The Family  
Chapter 2 Family Similarities.  
Chapter 3 Our Food.

FA 2  
Chapter 4 Our Dresses.  
Chapter 5 The Early Man.  
Chapter 6 Learning about works.

## SUBJECT NAITIK SHIKSHA

विकासात्मकमूल्यांकन FA-1  
पाठ 1 =ईश्वरमहिमा  
पाठ 2 =ईश्वर  
पाठ 3 =आर्य  
FA-1 मेंहटायागयापाठ (आर्यसमाजकेपहलेदोनियम)  
विकासात्मकमूल्यांकन FA-2  
पाठ 5 =परमात्माकेनाम  
पाठ 6 =प्रार्थना  
पाठ 8 =श्रीराम  
FA-2 मेंहटायागयापाठ (चित्रमालापाठ 7)  
संकलनात्मकमूल्यांकन SA-1  
FA-1+ FA-2

## CLASS - IV

## SUBJECT - ENGLISH

FA-1 & FA-2 Syllabus of English

FA-1

English Reader

Ch-A true friend

English Practice Book

Unit-1 (naming words)

Unit-2(Genders)

Unit -3(pronouns)

Writing skills:Essay writing

FA-2 Syllabus

Reader book

1) Travel Plan

Practice Book

1) prepositions

2) Describing Words

3)Determiners

4)verbs

Writing Skills :Letter writing

Reduced syllabus

1)Mix up at birth

2) Jungle safari

Class-4th

FA -1 activity of English

1) Make a collage on your favourite sports person

FA-2 Activity of English

1) Make a "travel ads " on your city

## SUBJECT – HINDI

संकलनात्मकमूल्यांकन 1(SA1)

विकासात्मकमूल्यांकनएक (FA1)

पाठ 1 फैलतीचप्पलें(भाषामाधुरीऔरभाषाअभ्यास)

पाठ 2 उल्टापुल्टा (भाषामाधुरीऔरभाषाअभ्यास)

पाठ 3 अनोखाढंग (भाषामाधुरीऔरभाषाअभ्यास)

पाठ 4 मित्रता (केवलभाषाअभ्यास)

पाठ 5 सेरकोसवासेर (केवलपढ़नेकेलिएहै)

विकासात्मकमूल्यांकन 2 (FA2)

पाठ 6 पहलीबारिश (भाषामाधुरीऔरभाषाअभ्यास)

पाठ 7 दादीकारेडियो (भाषाअभ्यासऔरभाषामाधुरी)

पाठ 8 किस्सेकहावतोंकीदुनिया (केवलभाषाअभ्यास)

पाठ 9 नानीकीनावचली

(केवलपढ़नेकेलिएहै)

कक्षाचौथीकीहिंदीकीगतिविधि

विकासात्मकमूल्यांकनएक

महात्मागांधीजीकेबारेमें 10 वाक्यलिखें।

विकासात्मकमूल्यांकन 2

कोईपांचकहावतोंयामुहावरोंकेफ्रैशकार्डबनाएं।

## SUBJECT – MATHS

FA - 1

UNIT - 1 NUMBERS UPTO 999999.

UNIT 2 - ADDITION AND SUBTRACTION

UNIT -3 - MULTIPLICATION.

ACTIVITY : DRAW NEAT AND CLEAN PLACE VALUE

CHART FOR 6 -DIGIT NUMBERS BY SHOWING PLACES AND PERIODS .

FA - 2

UNIT -4 : DIVISION

UNIT - 5 : LENGTH

ACTIVITY : BASED ON CONCEPT LENGTH .

TERM I : SYLLABUS: FA 1 + FA 2

## SUBJECT - SCIENCE

F.A1 SYLLABUS

Chapter 1 --- My body

Chapter 2---- Plants

Activity 1-- To make a model of denture.

Reduced Chapter : Plants ( II )

F.A 2 SYLLABUS

CHAPTER 3---Flowers and fruits

Chapter--4 Plants around us.

Chapter---5 Birds beaks and claws.

Activity. Paste the picture of flowers of summer and winter seasons.

2.To make different types of beaks with the help of paper and identify them

3 To make claws of birds and identify them using straws.

## SUBJECT - SOCIAL SCIENCE

**FA1 syllabus**

Chapter 1 Family Relationships.

Chapter 2 Sensitivity towards others.

Chapter 3 Celebrating our diversity.

**FA 2 SYLLABUS**

Chapter 4 An Ideal home.

Chapter 5 Bricks and bridges.

Chapter 6 Waste Management.

## SUBJECT NAITIK SHIKSHA

विकासात्मकमूल्यांकनएक (FA1)

पाठ 1- प्रार्थना।

पाठ 2- आर्यसमाज।

पाठ 3- आर्यसमाजकेनियम (3 से6)

पाठ 4- गायत्रीमंत्रऔरउसकाअर्थ।

FA1 मेंसेहटाएगएपाठ-

पाठ 5- ईश्वरकहाँहै?

विकासात्मकमूल्यांकन 2 (FA2)

पाठ 6- समर्पण।

पाठ 8- शिवकौनहै?मृत्युक्याहै?

पाठ 9- दयानन्दप्रशस्ति

FA2 मेंसेहटाएगएपाठ-

पाठ 7- सृष्टिकर्ता।

पाठ 10- बालप्रतिज्ञा।

FA1+FA2=SA1

## CLASS - V

## SUBJECT - ENGLISH

FA - 1 & 2 Syllabus Of Class V (English)

My English Reader:

Unit - 1 :

i) Monday Morning Blues

ii) The Tale of Tail

iii) My Favourite Things

Unit - 2 :

i) The boy who borrowed

English Practice Book :

U -1 : Nouns

U -3 : Apostrophe

U -4 : Comparisons

U -5 : Verbs

U - 7 : Adverbs

Writing Skills :

i) Essay

ii) Letter

Reduced Syllabus :

i) Adventures with books (R.B.)

ii) Determiners (P.B.)

iii) Story writing

FA-1 & 2 Activity :

i) Write ten sentences using punctuation marks.

ii) Write any book review of your choice.

## SUBJECT – HINDI

विषय- हिंदी

कक्षा- पॉचवीं

(Fa1 + Fa2 syllabus) = SA-1

1. दिमागीलड़ाई

(भाषामाधुरी + भाषाअभ्यास )

2 लौहपुरुष (भाषामाधुरी + भाषाअभ्यास)

3. पेड़

( भाषामाधुरी + भाषाअभ्यास)

4. पूरेएकहजार (केवलपढ़नेकेलिए)

(केवलभाषाअभ्यास)

गतिविधि -संवादलेखन

5. दोपहलवान

( भाषामाधुरी + भाषाअभ्यास)

6. नदीयहॉपर

(भाषामाधुरी + भाषाअभ्यास)

7. पतीलेकीमृत्यु

(केवलभाषाअभ्यास)

8. टपकेकाडर

( भाषामाधुरी+भाषाअभ्यास)

गतिविधि-समाचारपत्रकीकोईदोकविताएँकाटकरहिंदीकीकॉपीपरचिपकाएँ।

## SUBJECT – MATHS

5th Class Mathematics SA1Syllabus:

FA1 Syllabus:

Unit1:Numbersupto 99,99,99,999.

Unit 2: Operations on Large Numbers .

Unit 3:Multiples and Factors.

ACTIVITY : INDIAN PLACE VALUE CHART AND INTERNATIONAL PLACE VALUE CHART

FA2 Syllabus:

Unit5: Decimals.

Unit 6 : Addition and Subtraction of Decimal numbers.

Reduced Chapter : unit 7:Multiplication and Division of Decimals.

ACTIVITY : PLACE VALUE CHART OF DECIMAL NUMBERS.

## SUBJECT – SCIENCE

CH. 1: MY BODY

CH. 2 : PLANTS

CH. 3 : FORESTS

CH. 4 : ANIMALS AND FRIENDS

CHAPTER 5 : FOOD AND HEALTH

CHAPTER 6 : SPOILAGE OF FOOD

ACTIVITY : 1). TO MAKE ASKELATED SYSTEM USING WASTE STRAWS &BUDS.

2) ACTIVITY ON COMPONENTS OF FOOD THEIR FUNCTION AND DEFFICIENCY DISEASE.

REDUCED CHAPTER IS FOREST

## SUBJECT – SOCIAL SCIENCE

Class 5th FA1 syllabus

Chapter 1 Importance of family.

Chapter 2 Human Migration.

Chapter 3 Variation in shelters.

FA 2 syllabus

Chapter 4 Sensitivity towards others.

Chapter 5 Community services.

Chapter 6 Leisure time

## SUBJECT NAITIK SHIKSHA (नैतिकशिक्षा )

विकासात्मकमूल्यांकनएक। (FA1)

पाठ 1- याचना।

पाठ 2- गायत्रीमंत्रकामहत्व।

पाठ 3- आर्यसमाजकेनियम। (सातवेंसेदसवेंतक)

पाठ 4- मूलशंकरकागृहत्यागऔरगुरुदक्षिणा।

FA1 मेंसेहटाएगएपाठ-

पाठ 5- ऋषि-महिमा।

विकासात्मकमूल्यांकन 2 (FA2)

पाठ 6- अच्छाबालक।

पाठ 7- महात्मासुकरातकीसहनशीलता।

पाठ 8- बड़ेघरकेगायक।

FA2 मेंसेहटाएगएपाठ-

पाठ 9- गुण-गान।

पाठ 10- अहिंसा।

FA1+FA2=SA1

## विषयसंस्कृत।

विकासात्मकमूल्यांकनएक (FA1)

प्रथम:पाठ:- मधुराप्रभातवेला।

द्वितीय:पाठ:-ममपरिवार:।

FA1 मेंसेहटाएगएपाठ-

तृतीय:पाठ:- वयम्पश्याम:जन्तुशालाम्।

विकासात्मकमूल्यांकन 2 (FA2)

चतुर्थ:पाठ:-शाकहट्टम्।

पञ्चम:पाठ:- अस्माकम्प्रियमित्राणि (पक्षिणः)

षष्ठःपाठः- येफलानिखादन्तितेसुखिनःवसन्ति।

व्याकरणम्-रामशब्द ,पद्धातुलट्लकारतथालृट्लकारमे।

FA2 मेंसेहटाएगएपाठ-

सप्तमःपाठः- चित्रप्रदर्शनी।

FA1+FA2=SA1

## CLASS – VI

### SUBJECT – ENGLISH

FA-1 & 2 Syllabus Of Class VI (English)

✓ My English Reader :

Unit 1 : Celebrations

Unit 2 : Hobbies

✓ English Literature :

1) How Daddy Decided What He Wanted To Be

2) The White Elephant

3) Leisure

4) My Experiment With Truth

5) Today And Tomorrow

✓ English Practice Book :

1) Putting It Together

2) Regular And Irregular Verbs

3) Determiners

4) Subject - Verb Agreement

5) Tenses I

6) Tenses II

7) Tenses III

Reduced Syllabus :

1) Unit 3 : Thrills In School Life (R.B.)

2) The Helpful Young man (Literature)

3) Notice Writing

FA -1 & 2 Activity :

1) Speech on 'My Aim In Life'

## 2) Tenses Chart

### SUBJECT – HINDI

#### FA 1

पाठ 1 ----- साथीहाथबढ़ाना ( ज्ञानसागरऔरअभ्याससागर)

पाठ 2 ---- चिट्ठीकेअक्षर( केवलअभ्याससागर)

पाठ 3 ---- बरसतेजलकेरूपअनेक( ज्ञानसागरऔरअभ्याससागर)

पाठ 4 ----- पुरस्कार( ज्ञानसागरऔरअभ्याससागर)

पाठ 5 ---- सीखो( केवलपढ़नेकेलिएऔरइसकविताकाअभ्यासकार्यकरवायाजाए)

FA 1 गतिविधि ---- समाचारपत्रमेंसेविज्ञापनकीकतरनेछाँटकरअपनीकॉपीपरचिपकाए।

#### FA 2 -----

पाठ 6----- अनोखावरदान( ज्ञानसागरऔरअभ्याससागर)

पाठ 7 ---- सुंदरलाल( ज्ञानसागरऔरअभ्याससागर)

पाठ 8 ---- नजानूकविबना(केवलअभ्याससागर)

पाठ 9 ----- दोहे( ज्ञानसागरऔरअभ्याससागर)

पाठ 10 ---- पोंगल( ज्ञानसागरऔरअभ्याससागर)

FA 2 गतिविधि---- दोहावाचनएवंलेख

TERM 1 ( FA 1 + FA2 )

### SUBJECT – MATHS

6th Class SA1 Syllabus(Maths):

FA1 Syllabus:

Unit1: Natural numbers and whole numbers.

Unit 2: Factors and multiples .

Unit 8: Basic geometrical concepts.

ACTIVITY :BASED ON DIVISIBILITY RULES

PROJECT : DEFINE DIFFERENT LINES WITH THE HELP OF FIGURE

FA2 Syllabus:

Unit3: Integers.

Unit 10: Angles.

REDUCED CHAPTER :

Unit9: Line Segments.

Unit4: Ratio ,Proportion and Unitary Method.

ACTIVITY :ADDITION OF INTEGERS ON NUMBER LINE

PROJECT : DIFFERENT PAIRS OF ANGLES WITH THE HELP OF FIGURE.

### SUBJECT - SCIENCE

#### TERM – 1: FA 1:

1). OUR ENVIRONMENT

2). FOOD

3). MEASUREMENT AND MOTION

ACTIVITY :

TO SEE THE EFFECTS OF ABIOTIC FACTORS ON GERMINATION OF SEEDS.

TO MEASURE STRAIGHT AND CURVED LINES.

TO SHOW THE DIFFERENT TYPES OF MOTIONS THROUGH ACTIVITY.

### **FA 2 :**

1). THE WORLD OF LIVING

2). SEPRATION OF SUBSTANCES

3). WORK AND ENERGY

4). NATURE OF MATTER

### **ACTIVITY :**

TO SHOW THE SLIDES OF AMOEBIA AND DIFFERENT KINDS OF SPECIMEN.

METHODS OF SEPARATION OF SUBSTANCES.

ACTIVITY BASED ON DIFFERENT FORMS OF ENERGY .

ACTIVITY BASED ON DIFFUSION, DISSOLUTION, MISCIBLE AND IMMISCIBLE LIQUIDS.

Reducedchapter :SEPRATION OF SUBSTANCES

## **SUBJECT – SOCIAL SCIENCE**

FA1:-

Lesson1. The planet earth and the solar system

Lesson 2. Representation of the earth

Lesson 8. Studying of the past

Lesson 9. Life of early man

Lesson 10. Development of Civilization

Lesson 21. Our community life : Unity in diversity.

Activity:-Model of Solar System

FA2:-

Lesson 3. Locating places on the earth.(Deleted)

Lesson 4. The motion of the earth (Day-night and season)

Lesson 11. The iron age civilisation.(Deleted)

Lesson12. Janapadas and Mahajanapadas(600-100BCE) (Deleted)

Lesson 22. Democracy and government

Activity:- Diagram of Revolution of the earth and season change.

## **SUBJECT NAITIK SHIKSHA**

विकासात्मकमूल्यांकन FA-1

पाठ 2 = सन्ध्या

पाठ 4 = तुमहीइकनाथ

पाठ 5 = आर्यसमाजकेनियम

FA-1 मेंहटायेपाठ (ईशस्तुति,ब्रह्मयज्ञ)

विकासात्मकमूल्यांकन FA-2

पाठ 6 = भक्तराजध्रुव

पाठ 7 =मर्यादापुरुषोत्तमराम

पाठ 8 =श्रीकृष्णचरित

पाठ 9 =धर्मवीरहकीकतराय

FA-2 मेंहटायागयापाठ (ईशप्रार्थनापाठ 10)  
संकलनात्मकमूल्यांकन SA-1  
FA-1 + FA-2

## SUBJECT – SANSKRIT

\*विकासात्मकमूल्यांकन FA-1  
पाठ 1 =पुरःपुरः प्रगच्छरे  
पाठ 2 =ममप्रियः विद्यालय  
FA-1 =व्याकरण ,शब्द ,धातुपाठान्तर्गत  
\*विकासात्मकमूल्यांकन FA-2  
पाठ 3 = चत्वारिप्रियमित्राणि  
पाठ 4 = मधुराःश्लोकाः  
FA-2 मेंहटायागयापाठ (जलेअपिवसन्तिजीवाः पाठ 5)  
व्याकरणशब्दरूप ,धातुरूपपाठान्तर्गत !  
संकलनात्मकमूल्यांकन SA-1  
FA-1 +FA2

## CLASS – VII

## SUBJECT – ENGLISH

Literature-

FA-1

Lesson 1-Monkey Trouble

Lesson 2-Birdie, will you pet

Lesson-3- A Hero

FA-2

Lesson 4- Fight Manju Fight

Lesson5- I Dream a world

Grammar -

FA-1

Topic -1 Articles

Topic -2 The Sentence

Topic 3- The Compound Sentence

FA2-

Topic- 4 Phrases and Clauses

Topic -5 Transitive and Intransitive Verbs

Topic -6 Modals

Reader Book:

FA-1 and FA-2

ch-1 People At Work

Ch-2 Relationships

Reduced Topics:

Literature Ch-6 Stone Soup in Bohemia

Reader Ch- 3 Attitude

Writing Skills - Notice Writing

ACTIVITY :

1. 'It is truly said that prosperity makes friends and adversity tries them'

Based on your personal experiences, write a paragraph about your friend.

2. Write any moral giving story which can bring awareness and instil good qualities among young generation

## SUBJECT – HINDI

FA1

पाठ 1-- बारहमासा (ज्ञानसागरऔरअभ्याससागर)

पाठ 2-- नाटकमेंनाटक (ज्ञानसागरऔरअभ्याससागर)

पाठ 3-- निर्मला, साँपऔरसयाल (ज्ञानसागरऔरअभ्याससागर)

पाठ 4-- बातूनी(केवलअभ्याससागर)

पाठ 5-- राजूकासपना (केवलपढ़नेकेलिए)(केवलअभ्याससागर)

FA1 गतिविधि-- 5-5 उपसर्गऔरप्रत्ययफ्रैशकार्डबनाए।

FA 2

पाठ 6--समय (ज्ञानसागरऔरअभ्याससागर)

पाठ 7 -- स्कूलकीछुट्टियाँ (ज्ञानसागरऔरअभ्याससागर)

पाठ 8-- एवरेस्टकीचुनौती (ज्ञानसागरऔरअभ्याससागर)

पाठ 9-- सवालकाजवाब (केवल

अभ्याससागर)

पाठ 10 -- झंडाऊँचारहेहमारा (केवलपढ़नेकेलिए )(केवलअभ्याससागर)

FA2--गतिविधि -- तिरंगाझंडाबनाकर,तिरंगेझंडेकेऊपरस्वरचितकविताकी 5 या 7 पंक्तियाँलिखें।

TERM 1 = FA 1 + FA 2

## SUBJECT – MATHS

FA - 1

CH. 1 : RATIONAL NUMBERS

CH -2 : OPERATIONS ON RATIONAL NUMBERS

ACTIVITY OF FA 1 PORTION:OPERATIONS ON RATIONAL NUMBERS (properties of addition subtraction multiplication and division)

FA - 2

CH-4 : EXPONENTS AND POWERS

CH - 8: TRIANGLES AND ITS PROPERTIES

CH-10 : CONSTRUCTION OF TRIANGLES

**ACTIVITY:**

- 1) ACTIVITY TO DESCRIBE EXTERIOR ANGLE PROPERTY AND ANGLE SUM PROPERTY OF TRIANGLE.
- 2 ) ACTIVITY TO SHOW THE MEDIAN AND CENTROID OF TRIANGLE, PERPENDICULAR BISECTORS OF SIDES OF A TRIANGLE AND CIRCUMCENTRE

## SUBJECT – SCIENCE

FA 1

- 1). NUTRITION IN LIVING ORGANISM- PLANTS
- 2). NUTRITION IN LIVING ORGANISM – ANIMALS
- 3). CHEMICAL SUBSTANCES AND PROCESSES.
- 4 ) HEAT

**ACTIVITY :**

TO TEST A LEAF FOR STARCH.

TO TEST THE ACTION OF SALIVA ON CARBOHYDRATES.

DEMONSTRATION OF DIFFERENT TYPES OF CHEMICAL REACTIONS.

EFFECTS OF HEAT ON DISSOLUTION OF SUBSTANCES.

FA -2

- 1). RESPIRATION IN ORGANISMS.
- 2). TRANSPORTATION IN PLANTS AND ANIMALS.
- 3). ACID, BASES AND SALTS.( DELETED )
- 4).MOTION AND TIME.

**ACTIVITY :**

TURNING OF LIME WATER INTO MILKY COLOUR DUE TO REACTION WITH  $\text{CO}_2$  .

STUDENTS WILL BE SHOWN A VIDEO ON THE STRUCTURE OF HEART.

TO SHOW THE CONDUCTION OF WATER IN PLANTS WITH THE HELP OF COLOURED WATER.

TO TEST THE ACID, BASES AND SALTS WITH THE HELP OF LITMUS PAPER , TURMERIC STRIPS AND CHINA ROSE INDICATORS.

NUMERICALS BASED ON THE CHAPTER.

REDUCED CHAPTER : ACID, BASES AND SALTS.

## SUBJECT – SOCIAL SCIENCE

Syllabus of class 7th

Subject :- Social science

FA1:-

Lesson 1.Components of environment

Lesson 2. The earth and the changes on it

Lesson 9. Medieval period

Lesson 10. The rise of the small Kingdom in North Indian

Lesson 18. Democracy and equality

Lesson 19. Our state governments

Activity:-Diagram of Soil layers.

Prepare 5 flash card showing the different wild species of India.

FA2:-

Lesson 3. The surface and Interior of the earth(Deleted)

Lesson 4. Air around us

Lesson 11. The rise of small kingdoms in South Indian(Deleted)

Lesson 12. Turkish invasion in North India

Lesson 20. Media-The mainstay of democracy(Deleted)

Lesson 21. Advertising and Democracy

Activity:-Paste the pictures of different Advertising and write there impact on democrac

## SUBJECT NAITIK SHIKSHA

विकासात्मकमूल्यांकन FA-1

पाठ 2 =धर्मकेलक्षण

पाठ 3 =आर्यसमाजकेनियम

पाठ 5 =व्यायाम

FA-1 मेंहटायेपाठ (ईशस्तुति,अभियानगीत )

\*विकासात्मकमूल्यांकन FA-2

पाठ 6 = प्रातःउठनेकेलाभ

पाठ 7 =उदबोधनगीत

पाठ 8 =सत्संगकामहत्व

पाठ 9 =योगउसकेअंगं

FA-2 मेंहटायागयापाठ (ईशविनयपाठ 10)

\*संकलनात्मकमूल्यांकन SA-1

FA-1 +FA-2

## SUBJECT SANSKRIT SKT

\*विकासात्मकमूल्यांकन FA-1

पाठ 1=बुद्धिः एवअस्माकंबलम्

पाठ 2= अभ्यासः एवपरमोगुरुः

पाठ 3=उपकारकाःवृक्षाः

व्याकरण ,शब्दरूप,धातुरूपपाठान्तर्गत !

\*विकासात्मकमूल्यांकन FA-2

पाठ 5 = सुवचनानि

FA-2 मेंहटायागयापाठ (आगच्छ !भोजनंकुर्यामिपाठ 4)

व्याकरण ,शब्दरूप,धातुरूपपाठान्तर्गत ,

\*संकलनात्मकमूल्यांकन SA-1

FA-1 + FA-2

## CLASS-VIII

### HINDI

#### FA 1

- 1---- पाठ 1--- हम पंछी उन्मुक्त गगन के( ज्ञान सागर और अभ्यास सागर)
- 2---- पाठ 2 -- असल धन( ज्ञान सागर और अभ्यास सागर)
- 3 ---- पाठ 3-- अच्छे पड़ोसी के गुण( ज्ञान सागर और अभ्यास सागर)
- 4---- पाठ 4 दोपहरी( केवल अभ्यास सागर)

#### F A 2 Syllabus

- पाठ 6 ---- आश्रम के अतिथि और संस्मरण( ज्ञान सागर और अभ्यास सागर)
- पाठ 7 ---- अन्याय के खिलाफ लड़ाई( ज्ञान सागर और अभ्यास सागर)
- पाठ 8 ----- दोहे( केवल अभ्यास सागर)
- पाठ 9 ----- जब भोलाराम ने पंप लगाया( ज्ञान सागर और अभ्यास सागर)
- पाठ 10 ----- बातचीत की कला( केवल अभ्यास सागर)

#### S A 2 Syllabus---- F A 3

- पाठ 11 ----- सितारों से आगे( ज्ञान सागर और अभ्यास सागर)
- पाठ 12 ---- पौधे के पंख( ज्ञान सागर और अभ्यास सागर)
- पाठ 13 ----- सूर और तुलसी के पद ( केवल अभ्यास सागर)
- पाठ 14 ----- बहू की विदा( ज्ञान सागर और अभ्यास सागर)
- पाठ 15 ---- कामचोर( ज्ञानसागर और अभ्यास सागर)

#### F A 4 -----

- पाठ 16 एक तिनका( केवल पढ़ने के लिए)
- पाठ 17 ---- सोना( केवल अभ्यास सागर)
- पाठ 18 ---- दुख में हार न मानो( ज्ञान सागर और अभ्यास सागर)

पाठ 19 ----- जीवन का सच( केवल अभ्यास सागर)

पाठ 20 ----- ईर्ष्या : तू न गई मेरे मन से( ज्ञान सागर और अभ्यास सागर)

## **SOCIAL SCIENCE**

### **FA-1 & FA-2**

- 1) Resources utilization and development.
- 2) Natural resources land, soil and water.
- 3) The modern period.
- 4) Colonialism Rural and Tribal societies.
- 5) The first war of Independence 1857.
- 6) Our constitution.
- 7) Fundamental rights fundamental duties and Directive Principles of State Policy.

## **MATHS**

### **FA-1**

1. Squares and Square roots.
2. Cubes and cube roots.
3. Mensuration.

### **FA-2**

1. Direct and inverse variation.
2. Algebraic identities.
3. Parallel lines
4. Introduction to graph.

## **SCIENCE**

### **FA1SYLLABUS**

Chapter 1) cell - structural and functions

Discovery of cell,

The cell variation in cell number shape and size in living organisms

Parts of cell level of organisation in an organism's comparison

between plant cell and animal cell valuable diagram of plant cell and animal cell cheek cell and onion peel cell.

Chapter 2) microorganisms friend and foe

Introduction types of microorganisms diagram of paramecium and euglena

viruses are unique where do microorganism live role of microorganisms in our life microorganisms as our friends microorganism the foe food poisoning and food preservation.

Chapter 4) Force and pressure

force effect of force factor associated with the magnitude of force needed

balanced and unbalanced forces types of forces contact and noncontact forces

pressure application of the concept of pressure in daily life liquid pressure

properties of liquid pressure atmospheric pressure variation in air pressure

importance of atmospheric pressure.

Chapter 5) Friction

Concept of friction ,cause of friction, factor affecting friction. types of friction static , sliding and rolling friction, friction a necessary evil. increasing and reducing friction. Fluid friction.

Chapter 7) Combustion

condition required for combustion, types of combustion, fire control incomplete combustion and Flame fuel and calorific value characteristics of a good fuel ,harmful effects of fuel.

**FA2syllabus**

Chapter 8 conservation of plants and animals

domestic and global consequences of deforestation conservation of forest and wildlife ,definition of ecosystem and species, biosphere reserves, national parks, wildlife sanctuary, flora and fauna ,endemic species, red data book migration , reforestation and recycling of paper.

Chapter 6) Sources of Energy

Classification of sources of energy on the bases of occurrence, physical state and availability.

Fossil fuels....coal and petroleum.destructive distillation of coal and it's products.Uses of coal, coal tar a coalgas.

Fractional distillation of petroleum and it's products, refining of Petroleum, natural gas,uses of natural gas,cleaner fuels.

Chapter 18) Earthquakes

Earthquake and their effects Cause of an earthquake the focus, epicenter, measuring of an earthquake, safety precautions against earthquake.

Chapter 19)Air pollution

Meaning of terms pollution and pollutants,air pollution,causes of air pollution, harmful effects of carbon monoxide,CFCs, oxides of sulphur and nitrogen,acid rain, global warming,green house effect, methods to control air pollution.

Chapter 16) Electric current and it's chemical effects.

Conductors and insulator

Conduction through liquids.

Cause of conductivity of liquid.

Electrolyte, conversion of chemical energy into electrical energy, chemical effect of electric currents their application Faraday's Discovery, electromagnetic induction.

**SANSKRIT**

विकासात्मक मूल्यांकन एक :-

पाठ 1 सुवचनानि

पाठ 2 वसुधैव कुटुंबकम्

पाठ 3 अहम् नदी अस्मि ।

विकासात्मक मूल्यांकन 2

पाठ 4 क्षमस्व महर्षे ।

पाठ 5 दिव्या गीर्वाणभारती ।

पाठ 6 मधुराणि वचनानि ।

व्याकरण भाग :- पुस्तकांतर्गत मात्र ।

हटाया गया पाठ्यक्रम :-

रचनात्मक कार्य :- अनुवाद के प्रश्न में लोट और विधि लिंग लकार ।

अनुप्रयुक्त व्याकरण :-

संधि - यण संधि ।

धातु रूप - रूच धातु ।

प्रत्यय - क्त और क्तवतु ।

## नैतिक शिक्षा।

विकासात्मक मूल्यांकन एक :-

पाठ 1 ओंकार ध्वज

पाठ 2 ईश्वर का सर्वश्रेष्ठ नाम

पाठ 3 आत्मबोध

पाठ 4 गीता के दो श्लोक

पाठ 5 गायत्री जप का प्रभाव

विकासात्मक मूल्यांकन 2

पाठ 6 संस्कृत भाषा

पाठ 7 राष्ट्रभाषा हिंदी

पाठ 8 पंच महायज्ञ

पाठ 9 डी.ए.वी. गान

पाठ 10 योग की पहली सीढ़ी यम।

## CLASS: IX

### English

#### Pre Mid Term

Beehive

- 1) The fun they had
- 2) The sound of music

Moment

- 1) The Lost child
- 2) The Adventures of Toto

#### Mid Term

Beehive

- 1) My childhood
- 2) Packing

Moment

- 1) In the kingdom of fools
- 2) The Happy prince

### Maths

Pre mid term -

Number system

Polynomials

Co ordinate geometry

Lines and angles

Triangles

Mid term -

Linear equation in two variables

Quadrilaterals

Heron's formula

Statistics

Post mid term -

Circles

Constructions

Surface areas and volumes

Probability

**Science**

Pre mid term syllabus-

Chapter - 1 – Motion

Chapter - 2 – Laws of motion upto 2<sup>nd</sup> law

Chapter – 3 – Matters in our surrounding

Chapter – 4 – Fundamentals of life

Chapter – 5 – Tissues

Mid term syllabus-

Chapter – 1 – Gravitation

Chapter – 2 – laws of motion after 3<sup>rd</sup> law

Chapter - 3 – Atoms and molecules

Chapter – 4 – Why do we fall ill

**Hindi**

पाठ 1---- दो बैलों की कथा ( क्षितिज)

पाठ 2 ----- लहासा की ओर( क्षितिज)

काव्य खंड से---- वाख ---- ललदय( क्षितिज)

पाठ 2 ----- मेरे संग की औरतें( कृतिका)

व्याकरण भाग से---- उपसर्ग प्रत्यय, समास

Mid Term Syllabus-----

पाठ 4---- सांवले सपनों की याद( क्षितिज)

पाठ 1 ----- दो बैलों की कथा( क्षितिज)

पाठ 3---- रीढ़ी की हड्डी ( कृतिका)

काव्य खंड---- पाठ 12 कैदी और कोकिला( क्षितिज)

व्याकरण भाग----- उपसर्ग प्रत्यय, समास, अर्थ के आधार पर वाक्य भेद, अनुच्छेद लेखन, संवाद

Post Term syllabus ----

पाठ 6 --- प्रेमचंद के फटे जूते( क्षितिज)

पाठ 12 --- कैदी और कोकिला( काव्य खंड क्षितिज)

पाठ 17 ---- बच्चे काम पर जा रहे हैं( क्षितिज)

पाठ 4---- माटी वाली( कृतिका)

व्याकरण भाग-----

उपसर्ग प्रत्यय, समास, अलंकार, अर्थ के आधार पर वाक्य भेद, अनुच्छेद, संवाद, लघु कथा लेखन

### **Social Science**

Pre mid term

- 1) India size and location
- 2) physical features of India
- 3) French revolution
- 4) what is democracy and why democracy
- 5) constitutional design
- 6) story of village Palampur

Mid term

- 1) socialism in Europe
- 2) climate
- 3) electoral politics
- 4) constitutional design (India subpart)
- 5) people as a resource
- 6) poverty as a challenge

**CLASS : X**

### **English**

#### **Pre Mid Term**

First Flight

- 1) A Letter to God
- 2) Nelson Mandela Long Walk to freedom

Footprint without feet

- 1) A Triumph of Surgery
- 2) The Thief's story

#### **Mid Term**

First Flight

- 1) The hundred dresses part 1

2) The hundred dresses part2

Footprint without feet

1) Footprints without feet

2) The making of a scientist

### **Maths**

#### **Pre mid term -**

Real numbers

Polynomials

Pair of linear equation in two variables

Introduction to trigonometry

Triangles

#### **Mid term -**

Quadratic equations

Arithmetic progression

Some applications of trigonometry

Circles

Statistics

#### **Post mid term -**

Co ordinate geometry

Constructions

Areas related to circles

Surface area and volume

Probability

### **Science**

#### **Pre mid term syllabus-**

Chapter -1 – Electricity

Chapter -2 –Chemical reaction

Chapter -3 – Acid base and salt

Chapter -4 – Life processes

#### **Mid term syllabus-**

Chapter -1 –Refraction

Chapter-2 –Metals and non metals

Chapter -3 – Carbon and its compounds

Chapter – 4 –How do organisms reproduce

### **Hindi**

#### **पूर्व मध्य अवधि -**

सूरदास के पद

तुलसीदास (संवाद)

#### **1. काव्य खंड :**

#### **2. गद्य खंड :**

क्षितिज- नेताजी का चश्मा

बालगोबिन भगत

कृतिका- माता का आँचल

3. व्याकरण :

पद परिचय

वाक्य रचना

**मध्य अवधि -**

1. काव्य खंड :

सूरदास के पद

उत्साह, अट नहीं रही

2. गद्य खंड :

क्षितिज- बालगोबिन भगत

लखनवी अंदाज़

कृतिका- माता का आँचल

जॉर्ज पंचम की नाक

3. व्याकरण:

पद परिचय

वाक्य रचना

वाच्य

4. अनुच्छेद + विज्ञापन

मध्य पद -

1. काव्य खंड:

तुलसीदास(संवाद)

कन्यादान

2. गद्य खंड:

क्षितिज- नेताजी का चश्मा

मानवीय करुणा की दिव्य चमक

कृतिका- जॉर्ज पंचम की नाक

साना-साना हाथ जोड़ि

3. व्याकरण:

पद परिचय

वाक्य रचना

वाच्य

रस

4. संदेश +पत्र

**Social Science**

**Pre midterm syllabus**

1 Nationalism in Europe

2 resource and development

3 power sharing

4 federalism

5 development

## **Midterm syllabus**

- 1 nationalism in India
- 2 agriculture
- 3 political parties
- 4 sector of Indian economy

## **CLASS : XI**

### **English**

#### **Hornbill (Term1)**

- 1) The Portrait of a Lady
- 2) We are not afraid to Die  
Snapshot
- 1) The summer of the beautiful white Horse
- 2) The Address

### **Maths**

#### Unit - 1 Syllabus

##### FA-1

1. Sets
2. Complex numbers and quadratic equation
3. Linear inequalities.
4. Trigonometric functions
5. Statistics.

##### FA- 2

- 1 Relations and functions
2. Permutations and combination.
- 3 Sequence and series.
4. three dimensional geometry.

### **Physics**

#### UNIT TEST 1 SYLLABUS-

#### UNIT 1-PHYSICAL WORLD AND MEASUREMENT

##### CHAPTER 1 PHYSICAL WORLD

Physics scope and excitement, nature of physical laws, physics, technology and society (to be discussed as a part of introduction and integrated with other topics)

##### Chapter 2 units and measurement

Needs for measurement, units of measurement, system of units, S.I units, fundamental and derived units. Length, mass and time measurement. Accuracy and precision of measuring instrument. Errors in measurement, significant figures

Dimensions of physical quantities, dimensional analysis and its applications.

##### Unit 2-kinematics

##### Chapter 3- motion in a straight line

Elementary concepts of differentiation and integration for describing motion, uniform and nonuniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity time and position time graphs. Relation for uniformly accelerated motion (graphical treatment)

## Chapter4-motion in a plane

Scalar and vector quantities position and displacement vectors, general vectors and their notations, equality of vectors, multiplication of vectors by real number, addition and subtraction of vectors, relative velocity, unit vector, resolution of a vector in a plane, rectangular components, scalar and vector product of vectors.

Motion in a plane, cases of uniform velocity and uniform acceleration, projectile motion, uniform circular motion.

## UNIT TEST 2 SYLLABUS-

### UNIT 3-LAWS OF MOTION

#### Chapter 5-laws of motion

Intuitive concept of force, inertia, Newton's first law of motion, momentum and Newton's second law of motion, impulse, Newton's third law of motion (recapitalisation only)

Law of conservation of linear momentum and its applications, equilibrium of concurrent forces, static and kinetic friction, laws of friction rolling friction, lubrication, dynamics of uniform circular motion: centripetal force, example of circular motion (vehicle on a level circular road, vehicle on a banked road)

#### Unit 4-work energy and power

#### Chapter 6 -work energy and power

Work done by a constant force and a variable force kinetic energy, work energy theorem, power. Notation of potential energy, potential energy of a spring, conservative forces, conservation of mechanical energy, non conservative forces, motion in a vertical circle, elastic and inelastic collision in one and two dimension.

## **Chemistry**

### Unit test-1

#### 1) Some basic concepts of chemistry

Topics--general introduction, importance and scope of chemistry, atomic and molecular mass, mole concept, molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry

#### 2) structure of atom

Topics--bahut model and its limitations, concept of shells and subshells, dual nature of matter and light, de-broglie relationship, Heisenberg uncertainty principle, concept of orbitals, Quantum numbers, shapes of s,p and d orbitals, rules for filling electrons in orbitals-aufbau principle, pauli's exclusion principle and hund's rule, electronic configuration of atoms. stability of half-filled and completely filled orbitals

#### 3) classification of elements and periodicity in properties

Topics--modern periodic law and present form of periodic table, product trends in properties of elements-atomic radii, ionic radii, inert gas radii, ionization enthalpy, electron gain enthalpy, electronegativity, valency.

nomenclature of elements with atomic number greater than 100

### Unit test --2

#### 1) chemical bonding and molecular structure

Topics---valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure ,polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization involving s p and d orbitals,shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules (qualitative Idea only) hydrogen bond

2) States of matter

Topics---intermolecular interactions, types of bonding, melting and boiling point role of gas laws -Boyle's law , Charles law, Gay lussac's law,Avogadro's law, ideal behaviour ,empirical derivation of gas equation ,avogadro's number, ideal gas equation and deviation from ideal behaviour

3)s-block elements

Topics-

[11:07 AM, 8/1/2020] Payal Mam: Topics--group 1 and group 2 elements

General introduction electronic configuration, occurrence,anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties such as ionization enthalpy, atomic and ionic radii, trends in chemical reactivity with oxygen water hydrogen and halogens ,uses

## **Biology**

### **Pre mid term syllabus-**

Unit -1 Diversity in the living world

Chapter 1 the living world

Chapter 2 biological classification

Unit -3 Cell structure and function

Chapter 1- cell

Chapter 2- biomolecules

Chapter 3- Cell cycle and division

### **Mid term syllabus-**

Unit – 1 Diversity in the living world

Chapter -3 – Plant kingdom

Chapter – 4 – Animal kingdom

Unit –2 Structural organization in animals and plants

Chapter 1 –Morphology of flowering plants

Chapter 2 –Structural organization in animals

## CLASS - XII

### MATHS

#### UNIT - 1

##### FA- 1

1. Inverse trigonometric functions
2. Relation and Function

##### FA - 2

1. Applications of derivatives
2. Integrals

### PHYSICS

#### UNIT TEST 1 SYLLABUS

##### UNIT 1 ELECTROSTATICS

###### CHAPTER 1-ELECTRIC CHARGES AND FIELD

ELECTRIC CHARGES CONSERVATION OF CHARGES COULOMB LAW-FORCE BETWEEN TWO point charges, forces between multiple charges superposition principle and continuous charge distribution.

Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in a uniform electric field.

Electric flux, statement of Gauss theorem and its application to find field due to infinitely long straight wire, uniformly charged infinite plane sheet.

###### Chapter 2-electrostatic potential and capacitance

Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges, equipotential surfaces, electric potential energy of a system of two point charges and of electric dipole in an electrostatic field.

Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor.

###### Unit 2 current electricity

###### Chapter 3 current electricity

Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current, ohm's law, electric resistance, V-I characteristic (linear and nonlinear), electrical energy and power, electrical resistivity and conductivity; temperature dependence of resistance.

Internal resistance of a cell, potential difference and EMF of a cell, combination of cells in series and in parallel, Kirchoff's law and simple application, wheatstone bridge metre bridge (qualitative ideas only)

Potentiometer-principle and its applications to measure potential difference for comparing EMF of two cells, measurement of internal resistance of a cell (qualitative ideas only)

###### Unit test 2 syllabus-

###### Unit 3-magnetic effects of current and magnetism

###### Chapter 4-moving charges and magnetism

Concept of magnetic field, ostered experiment, Boat savorts law and its application to current carrying circular loop. Ampere's law and its application to infinitely long straight wire, straight and toroid solenoid(only qualitative treatment),force on a moving charge in uniform magnetic and electric fields.force on a current carrying conductor in a uniform magnetic field, force between two parallel current carrying conductors-definition of ampere,torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.

Chapter 5 magnetism and matter

current loop as a magnetic dipole and its magnetic dipole moment, magnetic dipole moment of a revolving electron, bar magnet as an equivalent solenoid, magnetic field lines, earth magnetic field and magnetic elements.

Unit 4 electromagnetic induction and alternating current

Chapter 6-electromagnetic induction

Electromagnetic induction, Faraday's laws, induced EMF and current, self and mutual induction, eddy currents.

Chapter 7 alternating current

Alternating currents, pick and root mean square value of alternating current/voltages; reactance and impedance; LC oscillations (qualitative treatment only) LCR series circuit, resonance; power in AC circuits. AC generator and transformer.

## **CHEMISTRY**

Unit 1

Solutions

Topics---types of solutions expression of concentration of solutions of solids in liquid ,solubility of gases in liquids, solid solutions, rault's law ,colligative properties --relative lowering of vapour pressure, elevation of boiling point ,depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties

Unit 2.. Electrochemistry

Topics--

Redox reactions, EMF of a cell,standard electrode potential nernst equation and its application to chemical cells, relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variation of conductivity with concentration cell Kohlrausch's law, electrolysis

Unit 3--chemical kinetics

Topics

Rates of a reaction factors affecting rates of reaction concentration temperature catalyst order and molecularity of a reaction rate law and specific rate constant integrated rate equation and half life(only for zero and first order reactions)

Unit test 2

Unit 1(Solid state)

Topics--classification of solids based on different binding forces ,molecular, ionic, covalent and metallic solids ,amorphous and crystalline solids (elementary

idea), unit cell in two-dimensional and three-dimensional lattice, calculation of density of unit cell, packing in solids, packing efficiency, voids, number of atoms per unit cell in a cubic unit cell, point defects

Unit 2).. surface chemistry

Topics--adsorption, physisorption and chemisorption, factors affecting adsorption of gases on solids, colloidal state, distinction between true solutions, colloids and suspension, Lyophilic

and lyophobic, multimolecular and macromolecular colloids, properties of colloids, Tyndall effect, Brownian movement, electrophoresis, coagulation

Unit 3) haloalkanes and haloarenes

Topics--haloalkanes---nomenclature, nature of C-X bond, physical and chemical properties, optical rotation, mechanism of substitution reactions

Haloarenes--nature of C-X bond, substitution reactions (directive influence of halogens in mono substituted compounds only)

Unit 4) alcohol, phenol and ether

Topics--

Alcohol--nomenclature, methods of preparation, physical and chemical properties, identification of primary, secondary and tertiary alcohols, mechanism of dehydration

Phenol--nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenol

Ether--nomenclature, methods of preparation, physical and chemical properties, uses

## **BIOLOGY**

### **Pre mid term syllabus-**

#### **Unit 1 - Reproductions in organisms**

Chapter -1 sexual reproduction in flowering plants

Chapter- 2 human reproduction

Chapter-3 reproductive health

#### **Unit - 2 Genetics and evolution**

Chapter 1 principle of inheritance and variations

Chapter 2 molecular basis of inheritance

### **Mid term syllabus-**

#### **Unit - 3 Biology and human welfare**

Chapter -1 Human health and disease

Chapter – 2 Microbes in human welfare

#### **Unit –4 Biotechnology and its application**

Chapter – 1 Biotechnology (principles and processes)

## **ENGLISH**

TERM-1

### **Flamingo**

1.The last lesson.

2.Lost Spring

**POETRY**

1. My mother at sixty six.
2. An Elementary School, Classroom in a slum

**VISTAS**

1. The Third Level
2. The Enemy