



# AMRIT INDO CANADIAN ACADEMY

## CLASS - X

### ENGLISH

PRESCRIBED BOOKS: PUBLISHED BY CBSE, NEW DELHI INTERACT IN ENGLISH SERIES

1. MAIN COURSE BOOK (REVISED EDITION)
2. WORKBOOK (REVISED EDITION)
3. LITERATURE READER (REVISED EDITION)
4. THE STORY OF MY LIFE – 1903 BY HELEN KELLER (UNABRIDGED EDITION)

SECTION	SKILL	WEIGHTAGE ( 80MARKS)
A	READING SKILL	20
B	WRITING SKILL WITH GRAMMAR	30
C	LITERATURE TEXTBOOK WITH EXTENDED READING TEXT ( NOVEL)	30
TOTAL MARKS		80

### WEEKLY TEST SYLLABUS

25APRIL,18	11 JULY,2018	22 AUGUST ,2018
UNSEEN PASSAGE , TWO GENTLEMEN OF VERONA,THE FROG AND THE NIGHTINGALE, TO EDITOR , REARRANGE THE SENTENCE, EDITING BASED ON DETERMINERS,PARTS OF SPEECH	MRS.PACKETIDE'S TIGER , THE LETTER,NOT MARBLE NOR GILDED MONUMENTS,,JUMBLED WORDS, EDITING,STORY WRITING	UNSEEN PASSAGE,GAP FILLING ,RE ARRANGE THE SENTENCES , DRAMA THE DEAR DEPARTED, CHARACTER SKETCH OF MISS ANNE SULLIVAN ,HELLEN KELLER , STORY WRITING

### MONTHLY TEST SYLLABUS

OCTOBER 25-10-2018	NOVEMBER 22-11-2018	DECEMBER 17-12-2018
TWO GENTLEMEN OF VERONA MRS.PACKETIDE'S TIGER THE LETTER THE DEAR DEPARTED THE FROG AND THE NIGHTINGALE NOT MARBLE NOR GILDED MONUMENTS, OZYMANDIAS THE STORY OF MY LIFE ( I – XV ) LETTER FOR COMPLAINT STORY WRITING GAP-FILLING EDITING REARRANGE THE SENTENCES	A SHADY PLOT PATOL BABU VIRTUALLY TRUE OZYMANDIAS THE RIME OF ANCIENT MARINER DRAMA THE DEAR DEPARTED THE STORY OF MY LIFE ( I -XVIII ) LETTER FOR PLACING ORDER STORY WRITING GAP-FILLING EDITING REARRANGE THE SENTENCES	THE LETTER THE DEAR DEPARTED THE FROG AND THE NIGHTINGALE NOT MARBLE NOR GILDED MONUMENTS SNAKE DRAMA JULIUS CAESAR THE STORY OF MY LIFE ( I -XXIII ) LETTER TO EDITOR STORY WRITING GAP-FILLING EDITING REARRANGE THE SENTENCES

MONTHS	LITERATURE READER	MAIN COURSE BOOK & THE STORY OF MY LIFE – 1903 BY HELEN KELLER	WORKBOOK GRAMMAR SECTION	WRITING SECTION ( QUESTION WILL BE THEMATICALLY BASED ON THE PRESCRIBED BOOKS)
APRIL	1.TWO GENTLEMEN OF VERONA 2 .MRS. PACKLETIDE’S TIGER 1. THE FROG AND THE NIGHTINGALE (POEM)	1.HEALTH AND MEDICINE THE STORY OF MY LIFE CHAPTER I – V	DETERMINERS FROM WORKSHEET BOOK JUMBLED SENTENCES. EDITING TENSES MODALS USE OF PASSIVE VOICE SUBJECT – VERB CONCORD	FORMAL LETTER BASED ON COMPLAINTS  LETTER TO THE EDITOR
MAY	3.THE LETTER 2.NOT MARBLE,NOR GUIDED MONUMENTS (POEM)	2. EDUCATION THE STORY OF MY LIFE CHAPTER VI-X	TENSES WORKBOOK REPORTING (I)COMMANDS AND REQUESTS (II) STATEMENTS (III) QUESTIONS	FORMAL LETTER BASEDON PLACING ORDER.
JULY	1.THE DEAR DEPARTED(DRAMA) 4. A SHADY PLOT 4. OZYMANDIAS	3. SCIENCE THE STORY OF MY LIFE CHAPTER XI-XV	TENSES- DIFFERENT KINDS OF EDITING RELATED TO TENSES. ERROR TYPE, OMISSION TYPE AND BLANK TYPE CLAUSES:(I) NOUN CLAUSES(II) ADVERB CLAUSES OF CONDITION AND TIME(III) RELATIVE CLAUSES DETERMINERS PREPOSITIONS	STORY WRITING ( WITH HELP OF GIVEN HINTS)
AUGUST	<b>ASL 27-8-2018 AND REVISION FOR TERM 1 EXAMS</b>			
OCTOBER	5. PATOL BABU 5. THE RIME OF ANCIENT MARINER	THE STORY OF MY LIFE XV-XIX	INTEGRATED GRAMMAR PRACTICE BASED ON DETERMINERS, MODALS, TENSES AND VOICES	FORMAL LETTER BASED ON COMPLAINTS  LETTER TO THE EDITOR FORMAL LETTER BASEDON PLACING ORDER. ( CONTINUED.....)
NOVEMBER	6. VIRTUALLY TRUE 6. SNAKE DRAMA JULIUS CAESAR	THE STORY OF MY LIFE XV-XX - XXIII	12. ACTIVE AND PASSIVE 13. REPORTED SPEECH GAP-FILLING	STORY WRITING ( WITH HELP OF GIVEN HINTS) ( CONTINUED.....)
DECEMBER	<b>ASL AND REVISION OF FULL SYLLABUS FINAL EXAMS IN MARCH</b>			
JANUARY				
FEBRUARY				

# SCIENCE

## General Instructions :

1. There will be an Annual examination based on entire syllabus.
2. The annual examination will be of 80 marks and 20 marks weightage shall be for internal assessment.
3. Out of 80 marks annual examination, 68 marks weightage shall be for theory and 12 marks weightage shall be for practical based questions.
4. For internal assessment
  - a. There will be six weekly tests conducted by the school. Average of the six tests to be taken that will have a weightage of 10 marks towards the final result.
  - b. Practical / Laboratory work should be done throughout the year and the student should maintain record of the same. Practical Assessment should be continuous. There will be weightage of 5 marks towards the final result. All practicals listed in the syllabus must be completed.
  - c. Regularity, class work and home assignment completion along with neatness and upkeep of notebook will carry a weightage of 5 marks towards the final result.

Marks : 80

Unit No.	Unit	Marks
I	<b>Chemical Substances - Nature and Behaviour</b>	<b>25</b>
	1. Chemical Reactions and equations	5
	2. Acid, Bases and Salts	5
	3. Metals and non- metals	5
	4. Carbon and its compounds	5
	5. Periodic classification of elements	5
II	<b>World of Living</b>	<b>23</b>
	1. Life Processes	6
	2. Control and Coordination in plants and animals	5
	3. Reproduction in animals	6
	4. Heredity and evolution	6
III	<b>Natural Phenomena</b>	<b>12</b>
	1. Light: Reflection and Refraction	8
	2. Human Eye and its defects	4
IV	<b>Effects of Current</b>	<b>13</b>
	1. Electricity	7

	2. Magnetic effects of current	6
V	Natural Resources	07
	1. Sources of energy	2
	2. Our environment	2
	3. Management of natural resources	3
	Total	80
	Internal assessment	20
	Grand Total	100

**QUESTION PAPER DESIGN FOR SCIENCE  
CLASS – X**

**TIME–  
3HRS**

**BLUE PRINT**

**M.M.: 80**

Sr. No.	TYPOLOGY OF QUESTIONS	No. of Questions	TOTAL MARKS
			80
1.	Very Short Answer (VSA) 1 Mark	2	2
2.	Short Answer- I (SA I) 2 Marks	3	6
3.	Short Answer- II (SA II) 3 Marks	10	30
4.	Long Answers (LA) 5 Marks	6	30
5.	Practical Based Questions (PBQs) 2 Marks	6	12

1. Question paper will consist of 27 questions.

2. All questions would be compulsory. However, an internal choice will be provided in three questions of 3 marks each, two questions of 5 marks each and one question (for assessing the practical skills) of 2 marks.

**DISTRIBUTION OF MARKS IN TERM END EXAMS**

<b>TYPES OF QUESTIONS</b>	<b>M.M.: 80</b>
Very Easy Questions	30 Marks
Average Difficulty Level	25 Marks
Application Based	15 Marks

<b>Higher Order Thinking Skills (HOTS)</b>	<b>10 Marks</b>
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**I –TERM WEEKLY TEST SCHEDULE AND SYLLABUS**

<b>16-05-2018</b>	<b>Chapter No. 1 Chemical Reactions and Equations (Chemistry)</b>	<b>9 M</b>
	<b>Chapter No. Life Processes (Nutrition and Respiration)</b>	<b>8 M</b>
	<b>Chapter No. 12 Electricity (Physics)</b>	<b>8 M</b>
<b>1-08-2018</b>	<b>Chapter No. 3 Metals and non-metals (Chemistry)</b>	<b>8 M</b>
	<b>Chapter No. 7 Control and Coordination (Biology)</b>	<b>9 M</b>
	<b>Chapter No. 13 Magnetic Effects of Electric Current (Physics)</b>	<b>8 M</b>

**BLUE PRINT OF WEEKLY TEST**

**TIME: 45 MINUTES**

**M.M.: 25**

<b>Sr. No.</b>	<b>TYOPOLOGY OF QUESTIONS</b>	<b>No. of Questions</b>	<b>TOTAL MARKS</b>
			<b>25</b>
<b>1.</b>	<b>Very Short Answer (VSA) 1 Mark</b>	<b>2</b>	<b>2</b>
<b>2.</b>	<b>Short Answer- I (SA I) 2 Marks</b>	<b>3</b>	<b>6</b>
<b>3.</b>	<b>Short Answer- II (SA II) 3 Marks</b>	<b>4</b>	<b>12</b>
<b>4.</b>	<b>Long Answers (LA) 5 Marks</b>	<b>1</b>	<b>5</b>
	<b>TOTAL QUESTIONS</b>	<b>10</b>	<b>25</b>

**DISTRIBUTION OF MARKS IN WEEKLY TEST**

<b>TYPES OF QUESTIONS</b>	<b>M.M.: 25</b>
<b>Very Easy Questions</b>	<b>10 Marks</b>

<b>Average Difficulty Level</b>	<b>7 Marks</b>
<b>Application Based</b>	<b>4 Marks</b>
<b>Higher Order Thinking Skills (HOTS)</b>	<b>4 Marks</b>

**APRIL**

**CHEMISTRY Chapter No. 1 Chemical Reactions and Equations**

Chemical equation, Balanced chemical equation, implication of a balanced chemical equation, types of chemical reactions : Combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction.

**PRACTICALS:** 1. Performing and observing the following reactions and classifying them into :

- a) Combination reaction
- b) Decomposition reaction
- c) Displacement reaction
- d) Double displacement reaction
  - (i) Action of water on quick lime
  - (ii) Action of heat on ferrous sulphate crystals 70
  - (iii) Iron nails kept in copper sulphate solution
  - (iv) Reaction between sodium sulphate and barium chloride solutions

**BIOLOGY: Chapter No. 6 Life Processes**

'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.

- PRACTICALS:**
1. Preparing a temporary mount of a leaf peel to show stomata.
  2. Experimentally show that carbon dioxide is given out during respiration.

**PHYSICS: Chapter No. 12 Electricity**

Electric current, potential difference and electric current. Ohm's law; Resistance, resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.

**PRACTICALS:** 1. Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I.

2. Determination of the equivalent resistance of two resistors when connected in series and parallel.

### **MAY**

**CHEMISTRY:** Chapter No. 3 Metals and Non-metals

Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention.

**PRACTICALS:** 1. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions :

- a)  $\text{ZnSO}_4$  (aq)
- b)  $\text{FeSO}_4$  (aq)
- c)  $\text{CuSO}_4$  (aq)
- d)  $\text{Al}_2(\text{SO}_4)_3$  (aq)

Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.

**BIOLOGY:** Chapter No. 7 Control and Coordination

Topic movements in plants; Introduction of plant hormones; Control and co-ordination in animals; Nervous system; Voluntary, involuntary and reflex action; Chemical co-ordination: animal hormones.

**PHYSICS:** Chapter No. 13 Magnetic Effects of Electric Current

Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Electric Motor, Electromagnetic induction. Induced potential difference, Induced current. Fleming's Right Hand Rule, Electric Generator, Direct Current. Alternating current : frequency of AC. Advantage of AC over DC. Domestic electric circuits.

### **JULY**

**CHEMISTRY:** Chapter No. 2 Acid, Bases and Salts

Their definitions in terms of furnishing of  $\text{H}^+$  and  $\text{OH}^-$  ions, General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris.

**PRACTICALS:** 1. Finding the pH of the following samples by using pH paper / universal indicator:

- a) Dilute Hydrochloric Acid
- b) Dilute NaOH solution
- c) Dilute Ethanoic Acid Solution
- d) Lemon juice
- e) Water
- f) Dilute Hydrogen Carbonate solution.

2. Studying the properties of acids and bases (HCl & NaOH) by their reaction with:

- a) Litmus solution (Blue/Red)
- b) Zinc metal
- c) Solid sodium carbonate

**PHYSICS:** **Chapter No. 14 Sources of Energy**

Different forms of energy, conventional and non-conventional sources of energy : Fossil fuels, solar energy; biogas; wind, water and tidal energy; Nuclear energy. Renewable versus non-renewable sources of Energy.

**AUGUST**  
REVISION OF I-TERM

**SEPTEMBER**  
EXAMINATION

**II-TERM SYLLABUS**

**OCTOBER**

**CHEMISTRY** **Chapter No. 4 Carbon and its Compounds**

Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydrocarbons and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents.



**PRACTICALS:** 1. Study of the following properties of acetic acid (ethanoic acid) :

- i) odour
- ii) solubility in water
- iii) effect on litmus
- iv) reaction with sodium Hydrogen Carbonate

**BIOLOGY** Chapter No. 8 **How do Organisms Reproduce?**

Reproduction in animals and plants (asexual and sexual) reproductive health-need and methods of family planning. Safe sex vs HIV / AIDS. Child bearing and women's health.

**PRACTICALS:** 1. Studying (a) binary fission in Amoeba, and (b) budding in yeast with the help of prepared slides.  
2 Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).

**PHYSICS:** Chapter No. 10 **Light- Reflection and Refraction**

Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification. Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens.

**PRACTICALS:** 1. Determination of the focal length of : i) Concave mirror ii) Convex lens by obtaining the image of a distant object.  
2. Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.

### **NOVEMBER**

**CHEMISTRY** Chapter No. 5 **Periodic Classification of elements**

Need for classification, Early attempts at classification of elements (Dobereiner's Triads, Newland's Law of Octaves, Mendeleev's Periodic Table), Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties.

**BIOLOGY:** Chapter No. 9 **Heredity and Evolution**

Heredity; Mendel's contribution - Laws for inheritance of traits : Sex determination : brief introduction; Basic concepts of evolution.

**PHYSICS: Chapter No. 11 Human Eye and colourful World**

Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses.

Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life.

- PRACTICALS:**
1. Tracing the path of the rays of light through a glass prism.
  2. Finding the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed.
  3. Finding the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed.

**DECEMBER**

**BIOLOGY Chapter No. 15 Natural Resources**

Conservation and judicious use of natural resources. Forest and wild life; Coal and Petroleum conservation. Examples of people's participation for conservation of natural resources. Big dams: advantages and limitations; alternatives, if any. Water harvesting. Sustainability of natural resources.

**Chapter No. 16 Our Environment**

Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances.

# ਪੰਜਾਬੀ

## ਮੁੱਢਲੀ ਬਣਤਰ (ਕੁੱਲ ਅੰਕ 80) (ਅਪ੍ਰੈਲ 2018 ਤੋਂ ਮਾਰਚ 2019)

ਕ੍ਰਮ ਨੰ.	ਪ੍ਰਸ਼ਨਾਂ ਦੀਆਂ ਕਿਸਮਾਂ ਕਿਸਮਾਂ	ਸਿੱਖਣ ਸਿਖਾਉਣ ਦੀ ਦੀ ਮੁਲਾਂਕਣ ਵਿਧੀ/ ਕੌਸ਼ਲ	ਛੋਟੇ ਪ੍ਰਸ਼ਨ 1 ਅੰਕ	ਛੋਟੇ ਪ੍ਰਸ਼ਨ 2 ਅੰਕ	ਲੰਬੇ ਪ੍ਰਸ਼ਨ 4,5,7 ਅਤੇ 8,10 ਅੰਕ	ਅੰਕ	%
1.	ਯਾਦ ਰੱਖਣਯੋਗ (ਪਾਠ ਪੁਸ਼ਤਕਾਂ ਤੋਂ ਅਧਾਰਤ)	* ਝੁਟਾਨ, ਛੋਲਣਾ, ਪੜ੍ਹਨ, ਲਿਖਣ ਕੌਸ਼ਲ * ਤਰਕ ਅਧਾਰਤ * ਵਿਸ਼ਲੇਸ਼ਣਾਤਮਕ ਕੌਸ਼ਲ	4 (1)	6 (2)	1 (4) 1 (5)	25	31.00%
2.	ਸਮਝ-ਸੂਝ ਅਧਾਰਤ (ਗਿਆਨ ਬਿੰਦੂ-ਅਣਫਿੱਠਾ ਪ੍ਰਿਯ ਅਤੇ ਅਣਫਿੱਠੀ ਕਾਵਿ ਨਕਲੀ)		1 (1) (ਛੋਟੇ ਉੱਤਰ ਵਾਲੇ)	7 (2)	—	15	18.75%
3.	ਵਿਹਾਰਕ (ਵਿਹਾਰਕ ਗਿਆਨ ਦੇ ਨਵੇਂ ਸਿਧਾਂਤ) ਅਨੁਮਾਨਤ ਕਿਸਮਾਂ		6 (ਬਹੁ-ਵਿਕਲਪੀ) 9 (ਛੋਟੇ ਉੱਤਰ ਵਾਲੇ ਪ੍ਰਸ਼ਨ)	—	1 (8)	23	28.50%
4.	ਸਿਰਜਣਾਤਮਕ (ਸਥਿਤੀ ਜਾਂ ਵਿਚਾਰ ਦੀ ਪਰਖ ਲਈ ਰਚਨਾਤਮਕ ਮੁਲਾਂਕਣ) ਅਨੁਮਾਨਤ ਕਿਸਮਾਂ		—	—	1 (10) 1 (7)	17	21.75%
		ਕੁਲ ਅੰਕ	20 (1)	26 (2)	4 (1) 5 (1) 7 (1) 8 (1) 10 (1)	80	100%

ਨਿਰਧਾਰਿਤ ਪਾਠ ਪੁਸਤਕਾਂ ਸਮੇਤ ਸਲਾਨਾ ਪਾਠਕ੍ਰਮ

1. ਸਾਹਿਤਕ ਕਿਰਨਾਂ-2
2. ਸਾਹਿਤਕ ਰੰਗ-2
3. ਵਿਆਕਰਨ

ਅਪ੍ਰੈਲ:-

1. ਸਾਹਿਤਕ ਕਿਰਨਾਂ-2 :- ਗਉੜੀ ਬੈਰਾਗਣਿ ਮ.੩ (ਗੁਰੂ ਅਮਰਦਾਸ ਜੀ),
2. ਸਾਹਿਤਕ ਰੰਗ -2 :- ਮੈਂ ਕਿਸੇ ਤੋਂ ਘੱਟ ਨਹੀਂ ( ਦਰਸ਼ਨ ਸਿੰਘ ਆਸ਼ਟ)
3. ਵਿਆਕਰਨ :- ਸਮਾਸੀ ਸ਼ਬਦ , ਅਗੇਤਰ-ਪਿਛੇਤਰ :

ਮਈ:-

1. ਸਾਹਿਤਕ ਕਿਰਨਾਂ-2 :- ਰੁੱਖਾਂ ਬਾਝੋਂ ਧਰਤੀ , ਨੰਬਰ ਵੰਨ ਦੀ ਰੇਸ (ਕੇ.ਐਲ. ਗਰਗ)
2. ਸਾਹਿਤਕ ਰੰਗ -2 :- ਈਅਰ ਫੋਨ ( ਬਲਵਿੰਦਰ ਸਿੰਘ ਸੋਢੀ)
3. ਵਿਆਕਰਨ :- ਪੱਤਰ ਰਚਨਾ-ਵਪਾਰਕ/ਦਫ਼ਤਰੀ
4. ਸਪਤਾਹਿਕ ਪ੍ਰੀਖਿਆ :- ਗਉੜੀ ਬੈਰਾਗਣਿ ਮ.੩ (ਗੁਰੂ ਅਮਰਦਾਸ ਜੀ), ਮੈਂ ਕਿਸੇ ਤੋਂ ਘੱਟ ਨਹੀਂ ( ਦਰਸ਼ਨ ਸਿੰਘ ਆਸ਼ਟ)  
ਨੋਬਰ ਵੰਨ ਦੀ ਰੇਸ, ਅਣਡਿੱਠਾ ਪੈਰੂਾ , ਅਣਡਿੱਠੀ ਕਾਵਿ-ਟੁਕੜੀ, ਸਮਾਸੀ ਸ਼ਬਦ

ਜੁਲਾਈ:-

1. ਸਾਹਿਤਕ ਕਿਰਨਾਂ-2 :- ਗੁੰਮ ਨੇ ਰਸੋਈ ਵਿੱਚੋਂ , ਆਦਤਾਂ ( ਰਾਜਿੰਦਰ ਸਿੰਘ)
2. ਸਾਹਿਤਕ ਰੰਗ -2 :- ਦੁਸ਼ਮਣੀ (ਬਲਵਿੰਦਰ ਸਿੰਘ ਬਰਾੜ)
3. ਵਿਆਕਰਨ- :- ਬਹੁ-ਆਰਥਕ ਸ਼ਬਦ, ਲੇਖ- ਵਿਚਾਰ ਪ੍ਰਧਾਨ/ ਆਮ ਵਿਸ਼ੇ
4. ਸਪਤਾਹਿਕ ਪ੍ਰੀਖਿਆ (2) :- ਰੁੱਖਾਂ ਬਾਝੋਂ ਧਰਤੀ, ਈਅਰ ਫੋਨ , ਗੁੰਮ ਨੇ ਰਸੋਈ ਵਿੱਚੋਂ , ਬਹੁ-ਆਰਥਕ ਸ਼ਬਦ  
ਅਣਡਿੱਠਾ ਪੈਰੂਾ , ਅਣਡਿੱਠੀ ਕਾਵਿ-ਟੁਕੜੀ,

ਅਗਸਤ:-

1. ਸਾਹਿਤਕ ਕਿਰਨਾਂ :- ਗੁਰੂ ਉਪਦੇਸ਼ , ਹੈਂਕੜ ਅਤੇ ਹਉਮੈਂ ਦੀ ਮਾਰ (ਡਾ. ਹਰਸਿੰਦਰ ਕੌਰ)
2. ਸਾਹਿਤਕ ਰੰਗ :- ਬੇਬੇ ਰਾਮ ਭਜਨੀ ( ਪ੍ਰੋ.ਆਈ. ਸੀ. ਨੰਦਾ)
3. ਵਿਆਕਰਨ :- ਵਿਸਰਾਮ ਚਿੰਨ੍ਹ , ਇਸ਼ਤਿਹਾਰ ਜਾਂ ਤਸਵੀਰ ਵਰਨਣ, ਮੁਹਾਵਰੇ ( ਕ ਤੋਂ ਝ ਤੱਕ)

ਸਤੰਬਰ -

ਛਿਮਾਹੀ ਪ੍ਰੀਖਿਆ

ਅਕਤੂਬਰ:-

1. ਸਾਹਿਤਕ ਕਿਰਨਾਂ -2 :- ਮਾਣ ਪੰਜਾਬੀ ਦਾ

2. ਸਾਹਿਤਕ ਰੰਗ -2 :- ਉਡਣਾ ਸਿੱਖ-ਮਿਲਖਾ ਸਿੰਘ (ਪ੍ਰਕਾਸ਼ ਸਿੰਘ ਗਿੱਲ)  
3. ਵਿਆਕਰਨ- :- ਮੁਹਾਵਰੇ ( ਕ ਤੋਂ ਝ ਤੱਕ)

ਨਵੰਬਰ:-

1. ਸਾਹਿਤਕ ਕਿਰਨਾਂ-2 :- ਕਲਾਤਮਕ ਰੁਚੀਆਂ-ਪ੍ਰਕਿਰਤੀ ਤੇ ਪਹਿਚਾਣ ( ਪ੍ਰੀਤਮ ਰੂਪਾਲ)  
2. ਸਾਹਿਤਕ ਰੰਗ -2 :- ਅਣਥੱਕ ਵਿਗਿਆਨੀ-ਡਾ. ਅਬਦੁਲ ਕਲਾਮ (ਡਾ. ਪ੍ਰਿਥਵੀ ਰਾਜ ਬਾਪਰ)  
3. ਵਿਆਕਰਨ- :- ਲੇਖ- ਆਮ ਵਿਸ਼ੇ

ਦਸੰਬਰ:-

1. ਸਾਹਿਤਕ ਕਿਰਨਾਂ-2 :- ਪੰਜਾਬ ਦੇ ਲੋਕ-ਗੀਤ ( ਤੇਜਿੰਦਰ ਕੌਰ ) ,  
2. ਸਾਹਿਤਕ ਰੰਗ -2 :- ਦੁਹਰਾਈ  
3. ਵਿਆਕਰਨ :- ਦੁਹਰਾਈ

ਜਨਵਰੀ :-

ਫਰਵਰੀ:-

ਮਾਰਚ:-

ਦੁਹਰਾਈ  
ਦੁਹਰਾਈ  
ਸਲਾਨਾ ਪ੍ਰੀਖਿਆ

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# हिंदी कोड 85

## पुस्तक सूची

1 पुस्तक स्पर्श 2 पुस्तक संचयन 3 सरस्वती व्याकरण

### अप्रैल

पुस्तक स्पर्श - पाठ बडे भाई साहब गद्य  
पुस्तक संचयन - पाठ हरिहर काका  
व्याकरण भाग - शब्द और पद , मुहावरे 1-50  
पत्र लेखन - आवेदन पत्र

### मई

पुस्तक स्पर्श - पाठ डायरी का एक पन्ना गद्य  
पाठ मीरा के पद  
व्याकरण भाग - मुहावरे 51-100 , संवाद लेखन  
अनुच्छेद लेखन - पर्व , त्योहार , मेला , यात्रा संबंधित ।

सप्ताहिक परीक्षा 23-5-18 गद्यांश , पाठ डायरी का एक पन्ना , प्रश्न-उत्तर  
पाठ का सार , मुहावरे 51-100 , व्याकरण भाग - संवाद लेखन

### जून

गर्मियों की छुट्टियाँ

### जुलाई

पुस्तक स्पर्श - तोप कविता पद्य  
पुस्तक स्पर्श - पाठ तताँरा वामीरो कथा गद्य  
व्याकरण भाग - मिश्र वाक्य व संयुक्त वाक्य  
पत्र लेखन - शिकायती पत्र

## अगस्त

पुस्तक स्पर्श – पाठ कबीर साखी , पर्वत प्रदेश में पावस , पद्य  
व्याकरण भाग – सूचना लेखन , समास , अपठित गद्यांश ।  
अशुद्ध वाक्यों से शुद्ध वाक्य

पत्र लेखन – संपादकीय पत्र  
अनुच्छेद लेखन – सूक्तिपरक – कवियों ,लेखको ,गुरुओं से संबंधित ।

सप्ताहिक परीक्षा 8-8-18 पद्यांश , पाठ कबीर साखी प्रश्न-उत्तर ,केन्द्रीय  
भाव , कविता का सार । व्याकरण भाग सूचना लेखन , अशुद्ध वाक्यों से शुद्ध  
वाक्य

## सितम्बर

प्रथम परीक्षा हेतु पुनरावृत्ति

## अक्टूबर

पुस्तक स्पर्श – पाठ बिहारी के दोहे , आत्मत्राण पद्य  
पुस्तक संचयन – पाठ सपनों के से दिन गद्य  
व्याकरण भाग – वाक्यों का रूपांतरण , मुहावरे 101-150 , वाक्यों का प्रयोग  
पत्र लेखन – पूछताछ संबंधी पत्र  
अनुच्छेद लेखन – नैतिक मूल्य व आदर्श , विज्ञान और अनुसंधान संबंधित ।

## नवम्बर

पुस्तक स्पर्श – पाठ अब कहाँ दुसरो के दुख में दुखी होने वाले गद्य  
पाठ मनुष्यता पद्य  
व्याकरण भाग – पत्र लेखन , संवाद लेखन  
पत्र लेखन – व्यवसायिक पत्र  
अनुच्छेद लेखन – राष्ट्रीय महत्त्व , विद्यार्थी जीवन संबंधी ।

### दिसम्बर

पुस्तक स्पर्श –	पाठ पतझड में टूटी पत्तियाँ	पद्य
पुस्तक संचयन –	पाठ टोपी शुक्ला	गद्य
व्याकरण भाग –	विज्ञापन , सूचना लेखन , मुहावरे	151 –200
अनुच्छेद लेखन –	विविध समस्याओं संबंधित व अन्य अनुच्छेद	

### जनवरी

पुस्तक स्पर्श –	कारतूस	गद्य
पुस्तक स्पर्श –	पाठ कर चले हम फिदा ,	पद्य
व्याकरण भाग –	अपिठत गद्यांश , मुहावरे	201–सभी अभ्यास हेतु

### फरवरी

वार्षिक परीक्षा हेतु पाठ्यक्रम की पुनरावृत्ति ।



निर्धारित समयवाचि : 3 घंटे

अधिकतम अंक : 80

क्र. सं.	प्रश्नों का प्राक्य	दक्षता परीक्षण /अधिनम परिणाम	अति लघुत्तरात्मक 1 अंक	लघुत्तरात्मक 2 अंक	निबंधात्मक 5 अंक	कुल योग
क	अपठित बोध	अवधारणात्मक बोध, उत्प्रेरण, अनुमान लगाना, विश्लेषण करना, संश्लेषण व अर्थिक बर्तित	01	07		15
ख	व्यावहारिक व्याकरण	व्याकरणिक संरचनाओं का बोध और प्रयोग, विश्लेषण एवं अर्थिक बर्तित	15			15
ग	पाठ्य पुस्तक	प्रवाहमरण, उत्प्रेरण (सावधान्य) लेखक के मनोभावों की समझना कवियों का प्रयोगलुक्कृत उत्प्रे समझना, आलोचनात्मक चिंतन, लक्षिकता, सराहना, साहित्यिक पांरपाओं के परिवेश में मूल्योन्नत, विश्लेषण, सुझावमकता, कल्पनाशीलता, कार्य-कारण संबंध स्थापित करना, सम्बन्ध एवं अंतरी की पहचान, अभिव्यक्ति में लक्षिकता एवं जीवन मूल्यों की पहचान।	2	4	03	25
घ	रचनात्मक लेखन (लेखन कौशल)	संकेत चिह्नों का विस्तार, अपने मता की अभिव्यक्ति, संदर्भरण समझना, आँखिच निर्धारण, मता में प्रवाहमकता, कटीक वीर्य, उचित प्रारूप का प्रयोग, अभिव्यक्ति की लक्षिकता एवं जीवन मूल्यों की पहचान।			5	25
		कुल	18x1=18	11x2=22	8x5=40	80

# **SOCIAL SCIENCE**

## **OBJECTIVES**

- To play an important role in developing well defined-abilities in cognitive, affective and psychomotor domains.
- To provide plentiful opportunities to engage the children in observing, recording, observations, drawing, tabulations, graphs etc.

## **DISTRIBUTION OF MARKS IN TERM END EXAMS**

<b>TYPES OF QUESTIONS</b>	<b>M.M.: 80</b>
<b>Very Easy Questions</b>	<b>30 Marks</b>
<b>Average Difficulty Level</b>	<b>25 Marks</b>
<b>Application Based</b>	<b>15 Marks</b>
<b>Higher Order Thinking Skills (HOTS)</b>	<b>10 Marks</b>

## **DISTRIBUTION OF MARKS IN WEEKLY TEST**

<b>TYPES OF QUESTIONS</b>	<b>M.M.: 25</b>
<b>Very Easy Questions</b>	<b>10 Marks</b>
<b>Average Difficulty Level</b>	<b>7 Marks</b>
<b>Application Based</b>	<b>4 Marks</b>
<b>Higher Order Thinking Skills (HOTS)</b>	<b>4 Marks</b>

## **BLUE PRINT OF WEEKLY TEST**

**TIME: 45 MINUTES**

**M.M.: 25**

Sr. No.	TYOLOGY OF QUESTIONS	No. of Questions	TOTAL MARKS
			25
1.	Very Short Answer (VSA) 1 Mark	5	5
2.	Short Answer- 3 Marks	5	15
3.	Long Answers (LA) 5 Marks	1	5
	<b>TOTAL QUESTIONS</b>	<b>11</b>	<b>25</b>

**QUESTION PAPER DESIGN FOR SOCIAL SCIENCE  
CLASS- IX**

**BLUE PRINT**

**TIMEM3HRS**

**M.M.: 80**

Sr. No.	TYOLOGY OF QUESTIONS	No. of Questions	TOTAL MARKS
			80
1.	Very Short Answer (VSA) 1 Mark	7	7
3.	Short Answer 3 Marks	11	33
4.	Long Answers (LA) 5 Marks	7	35
5.	MAP GEO -3M+HIS -2M	2	5
	<b>TOTAL</b>	<b>27</b>	<b>80</b>

1. Question paper will consist of 27 questions.
2. All questions would be compulsory. However, an internal choice will be provided in three questions of 3 marks each, two questions of 5 marks each and one question (for assessing the practical skills) of 2 marks.

**DISTRIBUTION OF MARKS IN CHAPTERS 1st term****Marks: 80**

	<b>Unit</b>	<b>Marks</b>
	<b>GEOGRAPHY</b>	<b>20</b>
	1. RESOURCES AND DEVELOPMENT	4
	2.WATER RESOURCES	4
	3. AGRICULTURE	6
	4. MINERALS AND POWER RESOURCES	6
	<b>ECONOMICS</b>	<b>20</b>
	1. DEVELOPMENT	6
	2. SECTORS OF THE INDIAN ECONOMY	8
	3. MONEY AND CREDIT	6
		5
	<b>CIVICS</b>	<b>20</b>
	1. POWER SHARING	5
	2. FEDERALISM	5
	3. DIVERSITY AND DISCRIMINATION	5
	4.GENDER, CASTE AND RELIGION	5
	<b>HISTORY</b>	<b>20</b>
	<b>NOVELS AND HISTORY</b>	<b>10</b>
	<b>NATIONALISM IN INDIA</b>	<b>10</b>
	<b>TOTAL</b>	<b>80</b>
	<b>Internal assessment</b>	<b>20</b>
	<b>Grand Total</b>	<b>100</b>

**WEEKLY TEST****1ST TERM****1. WEEKLY TEST- 18-04-2018****(POWER SHARING] (25 M)****2.WEEKLY TEST 30-05-2018****DEVELOPMENT (12M)**

**SECTORS OF INDIAN ECONOMY (13M)**

**3.WEEKLY TEST 16-08-2018**

**NATIONALISM IN INDIA (13M)**

**WATER RESOURCES (12M)**

**IIND TERM**

**4.Weekly test 31-10-2018**

**Minerals and energy (12M)**

**Manufacturing industries (13M)**

**5. Weekly test 30-11-2018**

**Political parties (13M)**

**Outcomes of democracy (12M)**

**6.[WEEKLY TEST**

**NATIONALIST MOVEMENT IN Indo china( 15M)**

**Lifelines of the Indian economy (10M)**

<b>MONTH</b>	<b>TOPIC and activity</b>
<b>APRIL- ECONOMICS CH.-1</b>	<b><u>DEVELOPMENT</u> :Make a report of top five and least five developed countries of the world according to HDIreport on the basis per capita income , life expectancy , literacy rate .</b>
<b>GEOGRAPHY- 1,3</b>	<b><u>RESOURCES AND DEVELOPMENT</u> : Identification only: Major soil Types. <u>WATER RESOURCES</u>: Locating and Labelling - Dams:</b>

Ch-1 civics	<p>(1) Salal (2) BhakraNangal (3) Tehri (4) RanaPratapSagar  (5) SardarSarovar (6) Hirakud (7) NagarjunaSagar  (8) Tungabhadra. (Along with rivers)</p> <p><b><u>Power Sharing</u></b></p>
<p>MAYEconomic sch  2,  Ch 2 civics  History chapter  Ch 3 ,4civics</p>	<p><b><u>SECTORS OF INDIAN ECONOMY:</u></b> Make a list of all kinds of work that you that adults around you doing for a living. in what way can you classify them ? Explain your choice.</p> <p><b><u>Federalism:</u></b>Read the newspaper / news , magazine or search the web on the problems and conflicts faced by the two communities in your country and the recent developments that have taken shape should be brought out as a group discussion .</p> <p><b><u>Novels and history:</u></b> Read godan and write briefly on 1. How premchand depicts the life of peasants in the novel  2. What the novel tells us about the life of peasants during the great depression .</p> <p><b><u>Democracy and Diversity and Gender ,Religion and Caste:</u></b> discussion in the class about all the perceptions of an ideal women that prevail in the society. Also make a book report .</p>
JULY- GEOGRAPHY- 4,5	<p><b><u>Agriculture</u></b> Identification only (a) Major areas of Rice and Wheat.  (b) Largest / Major producer states of Sugarcane; Tea; Coffee; Rubber; Cotton and Jute.</p> <p><b><u>Minerals and Energy Resources:</u></b> Minerals: (Identification only)  (I) Iron ore mines:  Mayurbhanj, Durg, Bailadila, Bellary, Kudremukh  (II) Mica mines:  Ajmer, Beawar, Nellore, Gaya, Hazaribagh  (III) Coal mines :  Raniganj, Jhar ia, Bokaro, Talcher, Korba, Singrauli, Singareni, Neyvali  (IV) Oil Fields :  Digboi, Naharkatia, MumbaiHigh, Bassien, Kalol, Ankaleshwar</p>

	<p><b>(V) Bauxite Deposits:</b> The Amarkantak plateau, Maikal hills, The plateau region of Bilaspur– Katni. Orissa Panchpatmali deposits in Koraput district</p> <p><b>(VI) Mica deposits:</b> The Chota Nagpur plateau., Koderma Gaya - Hazaribagh belt of Jharkhand Ajmer, Nellore mica belt</p> <p><b>Power Plants:</b> (Locating and Labelling only)</p> <p><b>(a) Thermal :</b> Namrup, Talcher, Singrauli, Harduaganj, Korba, Uran, Ramagundam, Vijaywada, Tuticorin</p> <p><b>(b) Nuclear:</b> Narora, Rawatbhata, Kakrapar, Tarapur, Kaiga, Kalpakkam</p>
<p><b>HISTORY</b></p>	<p><b><u>Nationalism in India</u></b></p> <p><b>1. Indian National Congress Sessions:</b> Calcutta (Sep. 1920), Nagpur (Dec. 1920), Madras (1927), Lahore (1929)</p> <p><b>2. Important Centres of Indian National Movement</b> (Non-cooperation and Civil Disobedience Movement)</p> <p>(i) Champaran (Bihar) – Movement of Indigo Planters (ii) Kheda (Gujrat) – Peasant Satyagrah (iii) Ahmedabad (Gujarat) – Cotton Mill Workers Satyagraha (iv) Amritsar (Punjab) – Jallianwala Bagh Incident (v) Chauri Chaura (U.P.) – calling off the Non Cooperation Movement (vi) Dandi (Gujarat) – Civil Disobedience Movement</p>
<p><b>Economics -3</b></p>	<p><b><u>Money and credit, [ACTIVITY]</u></b> Theme 2: Visit to banks and money lenders / pawnbrokers and discuss various activities that you have observed in banks in the classroom. Participate in the meetings of Self Help Groups, which are engaged in micro credit schemes in the locality of learners and observe issues discussed</p>

<b>AUGUST –</b>	<b>REVISION</b>
<b>SEPTEMBER – EXAMINATION</b>	
<b>OCTOBER-ch 4 economics</b>	<b>Globalisation and the Indianeconomy: Take some branded products that we use every day (soaps , toothpaste, garments, cloths )check which of these are produced by MNC.</b>
<b>GEOGRAPHY CH 5</b>	<p><b><u>Manufacturing Industries: Locating and Labelling Only</u></b></p> <p><b>(1) Cotton Textile Industries:</b> Mumbai , Indore, Ahmedabad, Surat, Kanpur, Coimbatore, Madurai</p> <p><b>(2) Iron and Steel Plants:</b> Burnpur, Durgapur, Bokaro, Jamshedpur, Raurkela, Bhi lai, Vi jaynagar, Bhadravati , Vishakhapatnam, Salem</p> <p><b>(3) Software Technology Parks:</b> Mohali, Noida, Jaipur, Gandhinagar, Indore, Mumbai, Pune, Kolkata, Bhubaneshwar Vishakhapatnam, Hyderabad, Bangalore, Mysore, Chennai, Thiruvananthapuram</p>
<b>Civics ch 5,6,7</b>	<p><b><u>Popular Struggles and Movements</u></b> (Note : Ch-5 is to be done as project work only and will not be evaluated in theory.</p> <p><b><u>Political parties</u></b></p> <p><b><u>Outcome of democracy</u></b></p>



NOVEMBER – geography CH- 7	<p><b><u>Lifeline’s of the Indian economy: Major Ports:</u></b> Kandla, Mumbai, JawaharLalNehru, Marmagao, New Mangalore Kochi, Tuticorin, Chennai, Vishakhapatnam, Paradip, Haldia, Kolkata</p> <p><b><u>International Airports:</u></b> Amritsar (Raja Sansi), Delhi (Indira Gandhi International) Mumbai (ChhatrapatiShivaji), Thiruvananthapuram (Nedimbacherry) Chennai (MeenamBakkam), Kolkata (NetajiSubhash Chandra Bose) Hyderabad (Rajiv Gandhi)</p>
Civics ch-8  HISTORYch 3	<p><b><u>Challenges to democracy</u></b></p> <p><b><u>Nationalist movement in indo china :</u></b> FIND OUT ABOUT ANTI IMPERIALIST MOVEMENT IN ANY ONE COUNTRY IN SOUTH AMERICA.</p>
Economics ch 5	<p><b><u>consumer rights:</u></b> Collect logos of standards available for various goods and services. Visita consumer court nearby and discuss in the class the proceedings; Collect stories ofconsumer exploitation and grievances from newspapers and consumer courts.</p>
DECEMBER HIS CH 4 JANAUARY, FEBRUARY REVISION MARCH - EXAMINATION	<p><b><u>The age of Industrialisation</u></b> Projectwork: select any one industry in your region and find out its history .Howhas a technology changed? Where do the workers come from? how are products advertised and marketed?</p>

## ACTIVITIES-GEOGRAPHY

### Project / Activity:

- Learners may collect photographs of typical rural houses, and clothing of people from different regions of India and examine whether they reflect any relationship with climatic conditions and relief of the area.
- Learners may write a brief report on various irrigation practices in the village and

the change in cropping pattern in the last decade.

**Posters:**

- Pollution of water in the locality.
- Depletion of forests and the greenhouse effect.

Note: Any similar activity may be taken up.

**ACTIVITIES OF ECONOMICS**

Theme 2\*: Visit to banks and money lenders / pawnbrokers and discuss various activities

that you have observed in banks in the classroom.

Participate in the meetings of Self Help Groups, which are engaged in micro credit schemes in the locality of learners and observe issues discussed.

Theme 4\*\*: Provide many examples of service sector activities. Use numerical examples, charts and photographs.

Theme 5\*\*\*: Collect logos of standards available for various goods and services. Visit a consumer court nearby and discuss in the class the proceedings; Collect stories of consumer exploitation and grievances from newspapers and consumer courts.

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**Project Work: 05 Periods(5 Marks)**

Every student has to compulsorily undertake any one project on the following units / topics.

1. Disaster Management (Pertaining to class Xth curriculum of Disaster Management only).

OR

2. Popular Struggles and Movements

OR

3. Money and Credit

The project have been carefully designed so as to -

- a) Create awareness in learners
- b) Enable them to understand and co-relate all aspects of selected topic
- c) Relate theory with practice
- d) Relation of different aspects with life

e) Provide hands on experience

The distribution of marks over different aspects relating to Project Work is as follows:

**S.NO. ASPECTS MARKS**

1. Content accuracy and originality 1
2. Presentation and creativity 1
3. Process of Project Completion: Initiative, cooperativeness, participation and punctuality

1

4. Viva or written test for content assimilation 2

The projects carried out by the students in different topics should subsequently be shared among themselves through interactive sessions such as exhibitions, panel discussions, etc. All documents pertaining to assessment under this activity should be meticulously maintained by concerned schools. A Summary Report should be prepared highlighting:

- o objectives realized through individual or group interactions;
- o calendar of activities;
- o innovative ideas generated in this process ;
- o list of questions asked in viva voce

It is to be noted here by all the teachers and students that the projects and models prepared should be made from eco-friendly products without incurring too much expenditure. The Project Report should be handwritten by the students themselves .

**MAP ACTIVITY**

**LIST OF MAP ITEMS FOR SOCIAL SCIENCE**

**A. History - Outline Political Map of India**

Lesson-3 Nationalism in India - (1918 - 1930).

For locating and labelling / Identification.

**1. Indian National Congress Sessions:**

Calcutta (Sep. 1920)

Nagpur (Dec. 1920)

Madras (1927)

Lahore (1929)

**2. Important Centres of Indian National Movement**

(Non-cooperation and Civil Disobedience Movement)

(i) Champaran (Bihar) – Movement of Indigo Planters

- (ii) Kheda (Gujrat) – Peasant Satyagrah
- (iii) Ahmedabad (Gujarat) – Cotton Mill Workers Satyagraha
- (iv) Amritsar (Punjab) – JallianwalaBagh Incident
- (v) ChauriChaura (U.P.) – calling off the Non Cooperation Movement
- (vi) Dandi (Gujarat) – Civil Disobedience Movement

## **B. GEOGRAPHY**

Outline Political Map of India

### **Chapter 1: Resources and Development**

Identification only: Major soil Types.

### **Chapter 3: Water Resources**

Locating and Labelling -

#### **Dams:**

- (1) Salal
- (2) BhakraNangal
- (3) Tehri
- (4) RanaPratapSagar
- (5) SardarSarovar
- (6) Hirakud
- (7) NagarjunaSagar
- (8) Tungabhadra. (Along with rivers)

### **Chapter 4: Agriculture**

Identification only

- (a) Major areas of Rice and Wheat.
- (b) Largest / Major producer states of Sugarcane; Tea; Coffee; Rubber; Cotton and Jute.

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### **Chapter: 5 Mineral and Energy Resources.**

**Minerals:** (Identification only)

#### **(I) Iron ore mines:**

Mayurbhanj, Durg, Bailadila, Bellary, Kudremukh

#### **(II) Mica mines:**

Ajmer, Beawar, Nellore, Gaya, Hazaribagh

#### **(III) Coal mines :**

Raniganj, Jhar ia, Bokaro, Talcher, Korba, Singrauli, Singareni, Neyvali

#### **(IV) Oil Fields :**

Digboi, Naharkatia, Mumbai High, Bassien, Kalol, Ankaleshwar

**(V) Bauxite Deposits:**

The Amarkantak plateau, Maikal hills, The plateau region of Bilaspur–Katni.  
Orissa Panchapatmali deposits in Koraput district

**(VI) Mica deposits:**

The Chota Nagpur plateau., Koderma Gaya - Hazaribagh belt of Jharkhand  
Ajmer, Nellore mica belt

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**Power Plants:**

(Locating and Labelling only)

**(a) Thermal :**

Namrup, Talcher, Singrauli, Harduaganj, Korba, Uran, Ramagundam, Vijaywada, Tuticorin

**(b) Nuclear:**

Narora, Rawatbhata, Kakrapar, Tarapur, Kaiga, Kalpakkam

**Chapter 6: Manufacturing Industries**

Locating and Labelling Only

**(1) Cotton Textile Industries:**

Mumbai, Indore, Ahmedabad, Surat, Kanpur, Coimbatore, Madurai

**(2) Iron and Steel Plants:**

Burnpur, Durgapur, Bokaro, Jamshedpur, Raurkela, Bhilai, Vijaynagar, Bhadravati,  
Vishakhapatnam, Salem

**(3) Software Technology Parks:**

Mohali, Noida, Jaipur, Gandhinagar, Indore, Mumbai, Pune, Kolkata, Bhubaneswar  
Vishakhapatnam, Hyderabad, Bangalore, Mysore, Chennai, Thiruvananthapuram

**Chapter 7 Lifelines of National Economy.**

Identification Only: Golden Quadrilateral, North–South Corridor, East–West Corridor.

**National Highways:**

NH-1

NH-2

NH-7

**Locating and Labelling:**

**Major Ports:**

Kandla, Mumbai, Jawaharlal Nehru, Marmagao, New Mangalore

Kochi, Tuticorin, Chennai, Vishakhapatnam, Paradip, Haldia, Kolkata

**International Airports:**

Amritsar (Raja Sansi), Delhi (Indira Gandhi International)  
Mumbai (Chhatrapati Shivaji), Thiruvananthapuram (Nedimbacherry)  
Chennai (MeenamBakkam), Kolkata (Netaji Subhash Chandra Bose)  
Hyderabad (Rajiv Gandhi)

**Note:** Items of Locating and Labelling may also be given for Identification.

WEEKLY TEST

25 MARKS

EASY QUESTIONS

10 MARKS

AVERAGE DIFFICULTY QUESTIONS

7 MARKS

APPLICATION BASED

4 MARKS

HOTS

4 MARKS

ALSCA

# MATHEMATICS

## APRIL :Unit -1 : Number Systems

### 1) Real Numbers

Euclid's division lemma, Fundamental Theorem of Arithmetic – statements after reviewing work done earlier and after illustrating and motivating through examples

, proofs of results – irrationality of  $\sqrt{2}$ ,  $\sqrt{3}$ ,  $\sqrt{5}$ , decimal expansions of rational numbers in terms of terminating / non-terminating recurring decimals.

### Unit ii : Algebra

#### 1. Polynomials

Zeros of a polynomial, Relationship between zeros and coefficients of a polynomial with particular reference to quadratic polynomial. statements

And simple problems on division algorithm for polynomial with real coefficients.

#### 2. Pair of Linear Equation in Two Variables

Pair of linear equations in two variables, Geometric representations of different possibilities of solutions inconsistency. Algebraic conditions for number of solutions, solution for pair of linear equations in two variables algebraically – by – substitution, by elimination, by cross multiplication, simple situational problems may be included.

**Activity :** (i) To find the number of zeros by graphical method.

(ii) To verify the conditions for consistency of linear equations by graphical representation.

## MAY : Unit iii : Trigonometry

### 1) Introduction to trigonometry

Trigonometry ratios of an acute angle of a right-angled triangle. proof of their existence, motivate the ratios, whichever are defined at 0 and 90 deg. values of the trigonometric ratios of 30, 45, 60 deg. Relationship b/w the ratios.

**Activity :** 1.) Statistics

Mean , median and mode of grouped data .Cumulative frequency graph.

2.) Find the average weight of students of class.

**JUNE : SUMMER VACATION**

**JULY : Unit V : Triangles**

Definations , examples ,counter examples of similar triangles.

- 1.) **(Prove)** if a line is drawn parallel to one side of triangle to intersect the other two sides in distinct points ,the other two sides are divided in the same ratio.
- 2.) **(Motivate)** if a line divides two sides of a triangle in the same ratio , the line is parallel to third side.
- 3.) **(Motivate)** if two triangles , the corresponding angles are equal , their corresponding sides are proportional and the triangles are similar.
- 4.) **(Motivate)** if the corresponding sides of two triangles are proportional ,their corresponding angles are equal and two triangles are similar .
- 5.) **(Motivate)** if one angle of a triangle is equal to one angle of another triangle and sides including these angles are proportional ,the triangles are similar.
- 6.) **(Motivate)** if a perpendicular is drawn from thr vertex of thr right angle of a right triangle to the hypotenuse , the triangle on each sides of the perpendicular are similar to the whole triangle and to each other .
- 7.) **(Prove)** The ratio of the areas of two similar triangles is equal to the ratio of the squares on their corresponding sides.
- 8.) **(Prove)** In a right triangle , the square on the hypotenuse is equal to the sum of the squares on the other two sides.
- 9.) **(Prove)** In a triangle ,if the square on one side is equal to the sum of the squares on the other two sides , the angles opposite to the first side is a righe triangle.

**Activity :** (i) Proof of Basic Proportionality Theorm.

(ii) Pythagorus Theorm

(iii) Area of two silmiliar triangles

**AUGUST : REVISION**



## TASK (III) HANDS ON ACTIVITY

**SEPTEMBER : TERM I**

**OCTOBER : 3. Quadratic Equations**

Standard form of a quadratic equation  $ax^2 + bx + c = 0$  . Solution of the quadratic equations (only real roots) by factorization and by completing the square , Relationship between discriminant and nature of roots .

Problems related to day today activity to be incorporated.

### 4.) Arithmetic Progression

Motivation for studying AP . Derivation of standard results of finding the  $n^{\text{th}}$  term and sum of first n terms.

**ACTIVITY :** To find the solution of quadratic equation

$$ax^2 + bx + c = 0$$

**NOVEMBER :**

### 2.) Trigonometry identities

### 3.) Heights and distances

Simple and believable problems on heights and distances . Problems should not involve more than two triangles. Angles of elevation / depression should be 30 , 60 , 90.

### 2.) Probability

Classical definition of probability . connection with probability as given in class **IX** . simple problems on single events , not using set notations.

## Unit IV : Coordinate Geometry

### 1.) Lines (in two – dimensions)

Review the concepts of coordinate geometry done earlier including graphs of linear equations . Awareness of geometrical representation of quadratic polynomial . distance between two points and section formula . area of triangle .

**Activity :** To verify the given sequence in an AP by paper cutting method.

## **December : Trigonometry**

Tangents to a circle motivated by chords drawn from points coming closer and closer to the point.

- 1.) (Prove ) The tangent at any point of a circle is perpendicular to the radius through the point of contact.
- 2.) (prove) The lengths of tangents drawn from an external point to circle are equal.
- 3.) **Construction**
  1. Division of a line segment in a given ratio
  2. Tangent to a circle from a point outside it.
  3. Construction of a triangle similar to a given triangle

**Activity :** To show that the lengths of tangents from an external point are equal.

## **JANUARY : Unit VI : Mensuration**

### **1. Areas Related to circles**

Motivate the area of circle , area of sector , segments of a circle . Problems based on areas and perimeters / circumference of the above said plane figure

### **2.) Surface areas and Volumes**

- (i) Problems on finding surface area and volumes of combinations of any two of the following : cubes , cuboids , spheres , hemispheres , and right circular cylinders/cones . Frustum of a cone .
- (ii) Problems involving converting one type of metallic solid into another and other mixed problem

**Activity :** (i) To find the probability of sum of numbers on a pair of dice through an activity.

(ii) To derive the formula for area of a sector of circle .

## **FEBRUARY : REVISION**

## **MARCH : TERM II .**

## COMPUTER

Month	Unit	Content	No. of Periods
April	Chapter 1: Introduction to Internet	1.1 History of Internet 1.2 Ways of connecting to Internet 1.3 Internet Terminology 1.4 Applications of Internet	6
	Chapter 2: Applications of Internet	2.1 Information Retrieval- Web Surfing 2.2 Using Search Engines 2.3 E-mail 2.4 Chat 2.5 Video Conferencing 2.6 Blog 2.7 Newsgroup 2.8 IT Applications 2.9 Social Networking 2.10 Cloud Computing	6
May	Chapter 3: Database Concepts	3.1 What is Database? 3.2 Advantages of Database 3.3 What is RDBMS? 3.4 Database Terminology 3.5 What is MS Access?	6
June	Chapter 4: Creating Tables in Design View & Queries in MS Access	4.1 Creating Tables in design view 4.2 Hyperlink and look up wizard 4.3 Setting a Primary key 4.4 Input Mask & Data Validation 4.5 Query	6
		SUMMER VACATION	

July	Chapter 5: Basic concepts of using a Web Browser	5.1 Web Browsers 5.2 Using Web Browser 5.3 Internet Explorer 5.4 Google Chrome	6
	Chapter 6: Introduction to HTML	6.1 Introduction to HTML 6.2 Structure of HTML document 6.3 Basic Tags 6.4 Viewing Document in the Browser 6.5 Body tag and its attributes	6
August September October		REVISION I TERM EXAMINATION	
	Chapter 7: Lists in HTML	7.1 Formatting Text 7.2 Inserting an Image 7.3 Address and Pre Tags 7.4 Creating Lists in HTML 7.5 Nested Lists	6
	Chapter 8: Tables in HTML	8.1 Creating Tables 8.2 Attributes of a Table 8.3 Attributes of <TR> and <TD> tags	6
November	Chapter 9: Creating Lists and Frames in HTML	9.1 Creating Hyperlinks 9.2 Text and Images as a Hyperlinks 9.3 Linking within a page 9.4 Creating Frames	6
	Chapter 10: XML	10.1 What is XML? 10.2 Difference between HTML and XML 10.3 XML elements 10.4 Comments in XML 10.5 White space and New Line 10.6 Well formed XML documents 10.7 Validating and viewing XML documents	6
December	Chapter 14: Societal Impact of Information Technology	14.1 What is a Computer virus? 14.2 Different types of virus, worm & Trojan 14.3 Hackers and Crackers 14.4 Antivirus Software 14.5 Information Security	6

	14.6 Spyware & Malware 14.7 Data Backup and Recovery Tools 14.8 Protecting your computer 14.9 Social Networking 14.10 Benefits and Impact of ICT
January	REVISION
February	Term II Examination

**SANTHYA**

Japji Sahib

Jaap Sahib (Recitation)

Tvai Prasad Savaiye(Saravagh Sudh)

Chaupai Sahib

Aanad Sahib

Rehraas Sahib

Kirtan Sohela Sahib

Sukhmani Sahib (Recitation)

# MUSIC

SA 1.

Revision done in previous class.

Practice of Alankars

Basics of Music.( detailed study):

Swar, saptak, Alankar, Lay and tala.

Importance of Music in Our life.

2 shabads with their meanings

Knowledge of talas

Tala on tabla: Teen tala

Shabad for I/h competition

Description and notation of 2 ragas.

S.A 2

3 shabads with Meanings

Tala on tabla: Dadra

Description and notation of 2 different Ragas

Knowledge and study of your Instrument.

Basant ki var in Basant Raga.

Preparation for Annual Function.