# MDN

# Public School, Rohtak

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# Class-XII Syllabus &Monthly Planner 2020-21

Subject	March-2020	April-2020	May-2020	June-2020	July-2020	August-2020
English Language & Literature	<ul> <li>Flamingo-</li> <li>Ch-1 The Last lesson</li> <li>Poem-1 My Mother at sixty six</li> <li>Vistas-</li> <li>Ch-1 The Third Level</li> <li>Writing Skills- Invitations</li> </ul>	<ul> <li>Flamingo-</li> <li>Ch-2 Lost Spring</li> <li>Poem-2 An elementary school – classroom in a slum</li> <li>Vistas-</li> <li>Ch-2 The Tiger King</li> <li>Writing Skills-</li> <li>Notices and poster-designing</li> </ul>	<ul> <li>Flamingo-</li> <li>Ch-3 Deep Water</li> <li>Poem-3 Keeping quiet</li> <li>Vistas-</li> <li>Ch-3 Journey to the end of</li> <li>Writing Skills-</li> <li>Advertisements</li> </ul>	the earth	<ul> <li>Flamingo-</li> <li>Ch-4 The Rattrap</li> <li>Poem-4 A Thing of beauty</li> <li>Vistas-</li> <li>Ch-4 The Enemy</li> <li>Writing Skills- Letter to Editor</li> </ul>	Flamingo- • Ch 5 Indigo • Poem-5 A Roadside stand Vistas- • Ch 5 Should wizard Hit Mommy Writing Skills- Note- making
हिन्दी (Deleted Topics: Refer to Page No.8)	आरोह (भाग–2) पद्य खंड • 1. आत्म परिचयग, एक गीत • 2. पतंग • 3. कविता के बहाने से, एक बा • कार्यालयी पत्र लेखन व आलेख	त सीधी थी पर लेखन	आरोह (भाग–2) गद् <b>य खंड</b> • 11. भक्तिन • 12. बाज़ार दर्शन • 13. काले मेघा पानी दे • पत्रकारिता लेखन व उसके वि <sup>रि</sup>	मेन्न आयाम	आरोह (भाग–2) पद्य खंड • 4. कैमरे में बंद अपाहिज • 5. सहर्ष स्वीकारा है। • 6. उषा आरोह (भाग–2) गद्य खंड • 14. पहलवान की ढोलक	वितान (भाग–2) • 1. सिल्वर वैडिंग • 2. जूझ आरोह– पद्य खंड • 8. क) कवितावली, ख) लक्ष्मण–मूच्छा और राम–विलाप • 9. क) रूबाइयाँ ख) गज़ल • समाचार लेखन, फीचर लेखन
Physics	<ul><li>Unit-I Electrostatics</li><li>Unit-II Electric Current</li></ul>	<ul> <li>Unit-II Electric Current (Contd.)</li> <li>Unit-VII Dual Nature of Matter</li> </ul>	<ul> <li>Unit-VIII Atom and Nuclei</li> </ul>	Unit-IX Semi-conductor     Physics	Unit-VI Optics	• Unit-VI Optics (Contd.)
Chemistry (Deleted Topics: Refer to Page No.9)	<ul><li>Unit-2 Solutions</li><li>Unit-3 Electrochemistry</li></ul>	• Unit -1 Solid state	<ul> <li>Unit -4 Chemical kinetics</li> </ul>	• Unit-7 p -Block elements	<ul> <li>Unit-8 d and f Block elements</li> <li>Unit-9 Coordination compounds</li> </ul>	<ul> <li>Unit -5 Surface Chemistry</li> <li>Unit -14 Biomolecules</li> </ul>

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Biology	• Unit-1 Reproduction in	<ul> <li>Unit-5 Ecology and</li> </ul>	• Unit-2 Genetus and	Unit-2 Genetus and	• Unit-3 Biology in Human	• Unit-3 Biology in Human
(Deleted Topics:	Organisms (Ch-2, 3, 4)	Environment (Ch-13)	Evolution (Ch-5)	Evolution (Contd.) (Ch-	Welfare (Ch-8)	Welfare (Ch-10)
Refer to Page				6)		
No.9)						
	<ul> <li>Ch-1 Relations and</li> </ul>	Ch-3 Matrices	• Ch-5 Matrices continued	•	Ch-7 Differentiation	<ul> <li>Ch-9 Integration</li> </ul>
Mathematics	Functions	• Ch-4 Determinant	Ch-6 Continuity		Ch-8 Application of	<ul> <li>Ch-10 Application of</li> </ul>
	• Ch-2 Inverse T-functions		•		derivative	Integral
	• To verify that if L be the	• To find limit of a function	• To represent derivative of	a point graphically.	• To understand concept of	• To evaluate the definite
	set of all lines in a plane	f(x) at x=c and check the			increasing and decreasing	integral $\int_{a}^{b} \sqrt{(1+x^2)}  \mathrm{dx}$
Mathamatia	and R is relation on L by	continuity of the function			function.	as the limit of a sum.
viamematics	$R = \{(I, m) : I \perp m, \text{ then } R \text{ 1s} \}$	of that point.				
Activity	symmetric but neither					
	To drow the graph the					
	graph is siny					
	• Ch-1 Financial statements	• Ch-3 Change in profit	Ch-3 Tools of Financial St	tatement Analysis	Ch-1 Not-for Profit	• Ch-5 Retirement or Death
	of a company	sharing ratio among the	comparative statements	tatement Analysis	Organisation	of a partner
	• Ch-2 Accounting for	existing nartners	comparative statements		Ch-1 Share Capital	• Ch-2 Issue of Debenture
	Partnership Fundamentals	Ch-4 Admission of a			Continue	Ch-5 Ratios
Accountancy	i unununun pi unuunununun	Partner			Ch-6 Dissolution of	• Ch-1 Accounting for
		• Ch-2 Financial statement			partnership firm	share capital
		Analysis			• Ch-4 Common size	1
					statement	
Business	<ul> <li>Unit-1 Natural and</li> </ul>	Unit-3 Business	<ul> <li>Unit-5 Organising</li> </ul>		Unit-5 Organising	• Unit-6 Staffing (Contd.)
Studies	Signification of	Environment	<ul> <li>Unit-6 Staffing</li> </ul>		<ul> <li>Unit-6 Staffing</li> </ul>	<ul> <li>Unit-7 Directing</li> </ul>
(Deleted Topics:	Management	<ul> <li>Unit-4 Planning</li> </ul>				
Refer to Page	• Unit-2 Principle of					
No.10)	Management					
	Indian Economics-	Indian Economics-	Indian Economics-		Indian Economics-	Macroeconomics
	• Ch-7 Poverty	• Ch-12 Environment and	• Ch-3 Features, Problems a	and Policies of Agriculture	Ch-5 India's Foreign	• Ch-5 Money
Fconomics	<ul> <li>Ch-8 Human capital</li> </ul>	sustainable Development	<ul> <li>Ch-4 Strategy of Industria</li> </ul>	l Growth (1947-1990)	Trade	<ul> <li>Ch-6 Banking</li> </ul>
Deleted Tonics	formation in India	• Ch-1 Indian Economy on			Ch-6 New Economic	Ch-2 Some Basic
Defer to Page	• Ch-9 Rural Development	the eve of Independence			Policy	concepts of
No.10)	• Ch-10 Employment and	• Ch-2 Five years Plans in			Ch-13 Development	Macroeconomics
	Unemployment	India : Goals and			Experience of India,	
	• Ch-11 Infrastructure	Achievements			Pakistan and China- A	
					comparative study	

Subject	March-2020	April-2020	May-2020	June-2020	July-2020	August-2020
Painting	• Ch-1 The origin and development of Miniature Painting in India	<ul> <li>Ch-2 Rajasthani school of Miniature Painting</li> <li>Practical -</li> <li>Still life (Nature) 1 Convas</li> </ul>	<ul> <li>Ch-4 Mughal school of Min Practical-</li> <li>Still Life (Geometric) Natur</li> <li>Complete 1 canvas and 5 Pa</li> </ul>	iature Painting e sums inting	<ul> <li>Ch-5 Deccan school of Mi</li> <li>Ch-6 Introduction of Beng</li> <li>Ch-7 Study of painting of Practical</li> <li>Daily Life scenes, Still life</li> </ul>	niature Paintings al school of Painting Bengal school
Geography	<ul> <li>Book-1</li> <li>Ch-1 Human Geography Nature and scope</li> <li>Ch-2 The world population</li> <li>Ch-3 Population composition</li> <li>Book-2</li> <li>Ch-1 Population : Distribution, Density and Growth</li> <li>Ch-2 Migration : Types, causes and consequences</li> </ul>	<ul> <li>Book-1</li> <li>Ch-4 Human Development</li> <li>Book-2</li> <li>Ch-3 Human Development</li> <li>Ch-4 Human Settlement</li> <li>Ch-5 Land resources and agriculture</li> <li>Practical -</li> <li>Data : Sources and compilation</li> </ul>	<ul> <li>Book-1</li> <li>Ch-5 Primary Activities</li> <li>Ch-6 Secondary Activities</li> <li>Ch-7 Tertiary and Quatern</li> <li>Ch-8 Transport and comm</li> <li>Practical -</li> <li>Data Processing</li> </ul>	ary Activities inication	Book-1  Ch-9 International Trade Ch-10 Human Settlement Book-2  Ch-6 Water Resources Ch-7 Mineral and Energy Resources Practical - Graphical Representation of Data	Revision
History	<ul> <li>Ch-1 Bricks, Beads and Bones</li> <li>Ch-2 Kings farmers and Towns</li> </ul>	<ul> <li>Ch-3 Kinship, caste and class</li> <li>Ch-4 Thinkers, Beliefs and Building</li> <li>Ch 5 Through the eyes of Travellers</li> </ul>	<ul> <li>Ch-6 Bhakti- Sufi Traditio</li> <li>Ch-7 Am Imperial capital</li> <li>Ch-12 Colonial Cities</li> <li>Ch-8 Peasants, Zamindars</li> <li>Ch-9 Kings and chronicles</li> </ul>	ns Vijayanagara <del>and the state</del>	<ul> <li>Ch-10 Colonialism and the countryside (pg 275- 285 Deleted)</li> <li>Ch-11 Rebels and the Raj</li> </ul>	<ul> <li>Ch-12 Colonial Cities</li> <li>Ch-13 Mahatma Gandhi and the National Movement</li> </ul>
Physical Education	<ul> <li>Brief introduction about physical education and complete syllabus</li> <li>Unit-1 Planning in sports</li> </ul>	<ul> <li>Unit-2 Sports and Nutrition</li> <li>Unit-3 Yoga and Lifestyle</li> </ul>	• Unit-4 Physical Education (Children with special need	and sports for CWSN ls- Divyang)	• Unit-5 Children and Women in sports.	• Unit-6 Test and Measurement in sports
Physical Education Practical		<b>Practical-1</b> Fitness Tests administrati	on for all items		<ul> <li>Practical-2</li> <li>Procedure for Asanas, b contraindication for any Lifestyle disease</li> </ul>	enefits and two Asanas for each

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Music	जीवन परियच • बडें गुलाम अली खां • उस्ताद फैय्याज खान राग • मालकौस सम्पूर्ण वर्णन • स्वर लिपि • रागा का गायन एवम सरगम ताल • तिलवाड़ा ताल, ताल का ग्राफ सहित वर्णन	<ul> <li>मूच्छर्ना, ग्राफ, गमक अंलकार का विस्तृत लेखन</li> <li>राग–भैरव राग गायन राग भैरव स्वर लिपि</li> <li>ताल– झपताल का ग्राफ सहित वर्णन</li> </ul>	<ul> <li>पंडित शारग देव द्वारा संगीत र लेखन</li> <li>रागों का समय सिद्धान्त वर्णन</li> <li>ताल–रूपक ताल का ग्राफ सर्गि</li> </ul>	त्लाकार पर विस्तृत चर्चा एवम् हेत वर्णन	• राग—वागेश्वरी का गायन • राग की स्वरलिपि	• खटका, मुर्की, दादरा–सादरा कण के स्वरूप एवं प्रकार • राग– शुद्ध सारंग • राग–गायन एवं स्वरलिपि
Political Science (Deleted Topics: Refer to Page No.10)	<ul> <li>Part-B</li> <li>Ch-1 Challenges of Nation Building</li> <li>Ch-2 Era on One Party Dominance</li> <li>Ch-3 Politics of Planned Development</li> <li>Ch-4 India's External Relations</li> </ul>	<ul> <li>Part-A</li> <li>Ch-1 The Cold War Era</li> <li>Ch-2 The End of Bipolarity</li> </ul>	<ul> <li>Part-A</li> <li>Ch-2 The End of Bipolarity</li> </ul>	<ul> <li>Part-A</li> <li>Ch-3 New Centres of Power</li> <li>Ch-4 South Asia &amp; the Contemporary World (Half)</li> </ul>	<ul> <li>Part-A</li> <li>Ch-4 South Asia &amp; the Contemporary World (Half)</li> <li>Ch-5 United National &amp; its organization</li> <li>Ch-6 Security in Contemporary World</li> </ul>	<ul> <li>Part-B</li> <li>Ch-5 Democratic Resource</li> <li>Ch-6 Social &amp; New Social Movements in India</li> </ul>

# Class-XII Syllabus &Monthly Planner 2020-21

Subject	September-2020	October-2020	November-2020	December-2020	January-2021
	Flamingo-	Flamingo-	Flamingo-	Revision and Pre-board-1	Revision and Pre-board-2
	<ul> <li>Ch 6 Poets and Pancakes</li> </ul>	Ch 7 The Interview	Ch 8 Going Places		
English	• Poem-6 Aunt Jennifer's Tigers	Vistas-	Vistas-		
Language &	Vistas-	• Ch-7 Evans tries an O-level	Ch-8 Memories of childhood		
Literature	• Ch-6 On the face of IT	Writing Skills-	Writing Skills-		
	Writing Skills- Business Letter	• Article writing, speech writing,	• Report writing and Job		
	<ul> <li>Term Examination-I</li> </ul>	debate writing	application		
	वितान (भाग—2)	आरोह– पद्य खंड	आरोह– गद्य खंड	• पुनरावृत्ति प्रारंभ	• पुनरावृत्ति
हिन्दी	3. अतीज में दबे पाँव	क) छोटा मेरा खेत	18. क) श्रम विभाजन व जाति प्रथा	• Pre-board-1	• Pre-board-2
(Deleted	• डायरी के पन्ने	ख) बगुलों के पंख	ख) मेरी कल्पना का आदर्श समाज		
Topics: Refer	<ul> <li>Term Examination-I</li> </ul>	आरोह— पदय खंड	• रचनात्मक लेखन, कविता, कहानी,		
to Page No.8)		15. चार्ली चैप्लिन यानी हम सब	नाटक की रचना प्रक्रिया		
··· - ··g· - ····)		16 नमक 17. शिरीष के फूल			
Physics	Term Examination-I	• Unit-III Magnetism and	Unit-IV Alternating currents	Revision and Pre-board-1	Revision and Pre-board-2
I Hysics		Magnetic effects of Current	• Unit-V Electromagnetic Waves		
	- Town Examination I	Lucit 10 Heleelleenee and	Lunit 11 Alashala Dhanala and	- Devicion and Dro board 1	- Devision and Dro board 2
Cnemistry	• Term Examination-1	Unit-10 Haloarkanes and     Haloarons	• Unit-11 Alcohols, Flienois and Ethers	• Revision and Fle-board-1	• Revision and Fie-board-2
(Deleted Topics:		• Unit 13 Organic compounds	Lucis		
Refer to Page		containing Nitrogen	<ul> <li>Ont-12 Aldenydes Ketones</li> <li>band carboxylic acids</li> </ul>		
N0.9)					
Biology	Term Examination-1	• Unit-4 Biotechnology (Ch-11,	• Unit-5 Ecology and	• Revision and Pre-board-1	• Revision and Pre-board-2
(Deleted Topics: Pofer		12)	Environment (Cn-15, 16)		
to Page No.9)					
	• Ch-11 Differential equations	• Ch-13 3-D	Ch-15 Probability	Revision and Pre-board-1	Revision and Pre-board-2
Mathematics	Ch-12 Vectors	• Ch-14 Linear Programming			
	<ul> <li>Term Examination-I</li> </ul>				
	• To verify the angle in a semi-	• Two measure the shortest	• To verify that angle between	<ul> <li>Models and Projects</li> </ul>	•
Mathematics	circle is a right angle using	distance between two skew	two planes is the same as the		
Activity	vector method.	lines.	angle between of conditional		
			prob. OI A/B by throwing a pair of dice		
	• Ch-3 Redemption of	• Revision + Test Series +	Revision + Test Series +	Revision and Pre-board-1	Revision and Pre-board-2
	Debentures	Sample Papers	Sample Papers + Project Work		
Accountancy	• Ch-6 Cash Flow Statement				
	Term Examination-I				

Subject	September-2020	October-2020	November-2020	December-2020	January-2021
Business Studies (Deleted Topics: Refer to Page No.10)	Revision + Revision Test	<ul> <li>Unit-9 Financial Management</li> <li>Unit-10 Financial Markets</li> </ul>	<ul> <li>Unit-11 Marketing Management</li> <li>Unit-12 Consumer Protection</li> </ul>	Revision and Pre-board-1	Revision and Pre-board-2
Economics (Deleted Topics: Refer to Page No.10)	<ul> <li>Macroeconomics -</li> <li>Ch-3 National Income and Related concepts</li> <li>Ch-4 Methods of collecting National Income</li> </ul>	<ul> <li>Macroeconomics -</li> <li>Ch-7 AD, AS and related concepts</li> <li>Ch-8 Short run equilibrium output</li> <li>Ch-9 Problem of deficient demand and excess demand</li> </ul>	<ul> <li>Macroeconomics -</li> <li>Ch-10 Govt. Budget and the Economy</li> <li>Ch-11 Foreign Exchange Rate</li> <li>Ch-12 Balance of Payments</li> </ul>	Macroeconomics - • Ch-1 Introduction + Revision • Pre-board-1	<ul> <li>Revision</li> <li>Pre-board-2</li> </ul>
Painting	<ul> <li>Practical -</li> <li>Ch-8 Contribution of Indian arti</li> <li>Ch-9 Evaluation of Indian Nation</li> <li>Ch-10 Modern trends in Indian</li> </ul>	st in struggle of National freedom r nal Flag Art	novement	Revision and Pre-board-1	Revision and Pre-board-2
Geography	<ul> <li>Book-2</li> <li>Ch-8 Manufacturing industries</li> <li>Ch-9 Planning and sustainable development</li> <li>Ch-10 Transport and communication</li> <li>Practical -</li> <li>Use of computer in Data Processing and mapping</li> </ul>	<ul> <li>Book-2</li> <li>Ch-11 International Trade</li> <li>Ch-12 Geographical perspective on selected issues and problems</li> <li>Practical - Spatial Information Technology</li> </ul>	• Revision + Revision Tests	• Revision and Pre-board-1	Revision and Pre-board-2
History		<ul><li>Ch 14 Understanding Partition</li><li>Ch-15 Framing the constitution</li></ul>	•	•	•
Physical Education	• Unit-7 Physiology and Injuries in sports	<ul> <li>Unit-8 Biomechanics and sports</li> <li>Unit-9 Psychology and sports</li> </ul>	<ul> <li>Unit-10 Training Training in sports + Revision</li> </ul>	Revision of Unit-1 to 6 and Pre-board-1	• Revision of Unit-7 to 10 and Pre-board-2
Physical Education Practical	<ul> <li>Practical-3</li> <li>Procedure for administering sen elderly family members.</li> </ul>	ior citizen Fitness Test for 5	<ul> <li>Practical-4</li> <li>Any one game of your choice out of list above. Labeled diagram of field and equipment (Rules, Terminologies and skills).</li> </ul>	Revision	• Revision
Music	Revision	<ul> <li>प0 अहोवल द्वारा रचित संगीत परिजात पुस्तक व्याख्या एवम् अध्ययन</li> <li>वर्ण, अलंकार पर व्याख्या</li> </ul>	<ul> <li>ताल– धमार ताल का वादन</li> <li>जीवन परिचय– प0 कृष्ण राव शंकर पंडित</li> <li>ताल– तीन ताल मात्रा एवम् विभाग</li> </ul>	Revision and Pre-board-1	Revision and Pre-board-2
Political Science (Deleted Topics: Refer to Page No.10)	<ul> <li>Part-B</li> <li>Ch-7 Regional Aspiration</li> <li>Ch-8 Indian Politics Trends &amp; Developments</li> </ul>	<ul> <li>Part-A</li> <li>Ch-7 Environment &amp; National Resources</li> </ul>	<ul> <li>Part-A</li> <li>Ch-8 Globalisation Revision of Part-B</li> <li>Ch-1, 2, 3</li> </ul>	Revision of Part-B • Ch-4, 5, 6, 7, 8 Revision of Part-A • Ch-1, 2, 3, 4, 5, 6, 7, 8 • Revision and Pre-board-1	Revision and Pre-board-2

# **PRACTICAL (2020-21)**

## **PHYSICS**

- Ex.1 To determine resistance per cm of a given wire by plotting graph of potential difference versus current.
- Ex.2 To find resistance of a given wire using meter bridge and hence determine the specific resistance of its material.
- Ex.3 To verify the law of series resistances using a Meter bridge.
- Ex.4 To verify the law of Parallel resistances using a Meter bridge.
- Ex.5 To compare the E.M.F (Electromotive Force) of two given primary cells using potentiometer.
- Ex.6 To determine the internal resistance of a given primary cell using potentiometer.
- Ex.7 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit.
- Ex.8 To find the frequency of the A.C. mains with a sonometer.

## Activities

- Activity-1 Assemble a household circuit comprising three bulbs, three (on/ off) switches, a fuse and a power source.
- Activity-2 To assemble the component of a given electrical circuit.

# Section-B

- Ex.1 To find the value of v for different values of u in case of a concave mirror and to find the focal length .
- Ex.2 To find the focal length of convex lens by plotting of graphs between u and v or  $\frac{1}{u}$  and  $\frac{1}{v}$ .
- Ex.3 To find the refractive index of liquid by using concave mirror.
- Ex.4 To determine angle of minimum deviation for a given prism by plotting graph between angle of deviation.
- Ex.5 To determine refractive index of a glass slab using a travelling microscope.
- Ex.6 To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias.
- Ex. 7 To draw the characteristic curve of a Zener diode and to determine is reverse breakdown voltage.

# ACTIVITIES

Activity-1 To identify a diode, an LED, a transistor, an IC, a resistor and a capacitor from mixed collection of such items.

Activity-2 To observe diffraction of light due to thin slit.

# **CHEMISTRY**

- Micro-chemical methods are available for several of the practical experiments. Wherever possible, such techniques should be used. A. Chromatography
- i) Separation of pigments from extracts of leaves and flowers by paper chromatography and determination of Rf values.
- ii) Separation of constituents present in an inorganic mixture containing two cations only (constituents having large difference in Rf values to be provided).
- A. Preparation of Inorganic Compounds Preparation of double salt of Ferrous Ammonium Sulphate or Potash Alum. Preparation of Potassium Ferric Oxalate.
- B. Tests for the functional groups present in organic compounds: Unsaturation, alcoholic, phenolic, aldehydic, ketonic, carboxylic and amino (Primary) groups.
- C. Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given foods tuffs.
- D. Determination of concentration/ molarity of  $KMnO_4$  solution by titrating it against a standard solution of:
- i) Oxalicacid,
- ii) Ferrous Ammonium Sulphate

(Students will be required to prepare standard solutions by weighing themselves).

E. Qualitative analysis Determination of one cation and one anion in a given salt. Cation :  $Pb^{2+}$ ,  $Cu^{2+} As^{3+}$ ,  $A\ell^{3+}$ ,  $Fe^{3+}$ ,  $Mn^{2+}$ ,  $Zn^{2+}$ ,  $Cu^{2+}$ ,  $Ni^{2+}$ ,  $Ca^{2+}$ ,  $Sr^{2+}$ ,  $Ba^{2+}$ ,  $Mg^{2+}$ ,  $NH^{4+}$ Anions:  $(CO_3)^{2-}$ ,  $S^{2-}$ ,  $(SO_3)^{2-}$ ,  $(NO_2)^-$ ,  $(SO_4)_{2-}$ ,  $C\ell^-$ ,  $Br^-$ ,  $\Gamma$ ,  $PO^{3-}$ ,  $(C_2O_4)^{2-}$ ,  $CH_3COO^-$ ,  $NO^-$  (Note: Insoluble salts excluded)

Volumetric Analysis	08
Salt Analysis	08
Content Based Experiment	06
Project Work	04
Class record and viva	04
Total	30

## **BIOLOGY**

### A. List of Experiments

- 1. Prepare a temporary mount to observe pollen germination.
- 2. Collect and study two different soil sample for texture, moisture content pH and water holding capacity. Correlate with the plants found in them.
- 3. Collect water from two different water bodies and study them for pH, clarity and presence of living organisms.
- 4. Prepare a temporary mount of onion root tip to study mitosis.
- 5. Study the effect of different temperatures of three different pH on the activities of salivary amylase on starch.
- 6. Isolate DNA from available plant material such as spinach, green pea seeds, papaya etc.

## **B.** Study / observation of the following (spotting)

- 1. Flowers adapted to pollination by different agencies.
- 2. Identification of stages of gamete development i.e T.S of testis and T.S of ovary through permanent slides.
- 3. Meiosis through permanent slides.
- 4. T.S of blastula through permanent slides.
- 5. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.
- 6. Common disease causing organism like Ascaris, Endameba, Plasmodium, fungus causing ringworm through permanent slides. Comment on the symptoms of diseases that they cause.
- 7. Two plants and two animals found in xeric conditions. Comment on their morphological adaptations.
- 8. Two plants and two animals found in aquatic conditions. Comment on their morphological adaptations.

### Mathematics Internal Assessment (20 Marks)

- 1. Viva- voce (2 marks)
- 2. Assessment of the activity performed during the year end test (3 marks)
- 3. Activity performed and record keeping (5 marks)
- 4. Periodic test (Best 2 out of 3) =10 marks

#### Accountancy

Project Exam : 80

Practical : 20

Project File - From any topic from the entire syllabus

## **Business Studies Project Work**

• One on above mention topics- Assessment

Allocation of Marks- 20 (Head	ds are)
Initiative of participation	2 Marks
Creativity in Presentation	2 Marks
Research work	4 Marks
Analysis	4 Marks
Viva	8 Marks

# Deleted Topics in Hindi

# कक्षा 12वीं : निम्नलिखित पाठ हटा दिये गये हैं।

काव्यर	काव्यखंड				
1.	सूर्यकांत त्रिपाठी निराला -बादल राग				
2.	हरिवंशराय बच्चन-(i)आत्म परिचय				
3.	आलोकधन्वा-पतंग				
4.	कुँवर नारायण-(ii) बात सीधी थी पर				
5.	उमाशंकर जोशी-(i) छोटा मेरा खेत, (ii) बगुलों के पंख				
गद्यखं	ड				
6.	विष्णु खरे-चार्ली चैप्लिन यानी हम सब				
7.	हजारी प्रसाद द्विवेदी-शिरीष के फूल				

#### **Deleted Portion in Chemistry**

CLASS -XII

S No	Unit	Portion to be Reduced			
1	Solid State	Electrical and magnetic properties. Band theory of metals, conductors, semiconductors and insulators and n and p type semi conductors.			
2	Solutions	Abnormal molecular mass, Van't Hoff factor			
3	Electrochemistr y	Lead accumulator, fuel cells, corrosion, law of electrolysis (elementary idea), dry cell- electrolytic cells and Galvaniccells,			
4	Chemical Kinetics	Concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.			
5	Surface Chemistry	emulsion - types of emulsions, catalysis: homogenous and heterogeneous, activity and selectivity of solid catalysts; enzyme catalysis,			
6	General Principles and Processes of Isolation of Elements	Entire unit			
7	p-Block Elements	Preparation and properties of Phosphine, Sulphuric Acid: industrial process of manufacture, Oxides of Nitrogen (Structure only); Phosphorus - allotropic forms, compounds of Phosphorus: Preparation and properties of Halides and Oxo acids (elementary idea only).			
8	d and f Block Elements	$\begin{array}{llllllllllllllllllllllllllllllllllll$			
9	Coordination Compounds	Structure and stereoisomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).			
10	Haloalkanes and Haloarenes	Uses and environmental effects of -dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.			
11	Alcohols, Phenols and Ethers	uses with special reference to methanol and ethanol.			
12	Aldehydes, Ketones and Carboxylic Acid				
13	Amines	Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.			
14	Biomolecules	Oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen), importance of carbohydrates. Vitamins- classification and functions. Enzymes. Hormones - Elementary idea excluding structure.			
15	Polymers	entire chapter			
16	Chemistryin Everydaylife	entire chapter			
		h .			

#### **Deleted Portion in Biology** DETAILED PORTION CLASS XII

#### Under Unit Unit-VI Reproduction

- Chapter-1: Reproduction in Organism
  - Reproduction, a characteristic feature of all organisms for continuation of species; modes of reproduction - asexual and sexual reproduction; asexual reproduction - binary fission, sporulation, budding, gemmule formation, fragmentation; vegetative propagation in plants.

#### Under Unit-VII Genetics and Evolution

#### Chapter-7: Evolution

 Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy – Weinberg's principle; adaptive radiation; human evolution.

#### Under Unit-VIII Biology and Human Welfare

#### • Chapter 9: Strategies for Enhancement in Food Production

· Animal husbandry, Plant breeding, tissue culture, single cell protein.

#### Under Unit-X Ecology and Environment

#### Chapter-14: Ecosystem

 Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy; nutrient cycles (carbon and phosphorous); ecological succession; ecological services - carbon fixation, pollination, seed dispersal, oxygen release (in brief).

#### • Chapter 16: Environmental Issues

 Air pollution and its control; water pollution and its control; agrochemicals and their effects; solid waste management; radioactive waste management; greenhouse effect and climate change impact and mitigation; ozone layer depletion; deforestation; exemplifying case study as success story addressing environmental issue(s).

# **Deleted Topics in Economics**

CLASS - XII

#### Part A: Introductory Macroeconomics

Unit	Topics Deleted			
Unit 2: Money and Banking	Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement.			
Unit 5: Balance of Payments	Balance of payments deficit-meaning. Determination of exchange rate in a free market.			

#### Part B: Indian Economic Development

Unit	Topics Deleted
Unit 7: Current challenges facing Indian Economy	Growth of Education Sector in India alternative farming - organic farming
	Infrastructure: Energy

## **Deleted Topics in Political Science**

#### Class XII

Book I: Contemporary World Politics			
UNIT	TOPICS		
6	Security in the Contemporary World (Completely Deleted)		
7	Environment and Natural Resources (Completely Deleted)		
Book II: Politics in India since Independence			
10	Planned Development <b>These topics are deleted from this unit:</b> Changing nature of India's economic development Planning Commission and Five-year Plans		
11	India's Foreign Policy These topics are deleted from this unit: India's Relations with its Neighbour's: Pakistan, Bangladesh, Nepal, Sri Lanka and Myanmar.		
14	Social and New Social Movements in India (Completely Deleted)		
15	Regional Aspirations (Completely Deleted)		

# **Deleted Topics in Business Studies**

CLASS-XII

Part A: Principles and Functions of Management

Unit	Topic deleted
Unit 3: Business Environment	Demonetization - concept
	Impact of Government policy changes on business with special reference to liberalization, privatization and globalization in India
Unit 4: Planning	Single use and standing plans. Objectives, Strategy, Policy, Procedure, method Rule, budget and Programme
Unit 5: Organising	Topics Deleted
	Formal and informal organisation- concept
Unit 6: Staffing	Staffing as a part of Human Resource Management concept
Unit 7: Directing	barriers to effective communication, how to overcome the barriers
Unit 8: Controlling	Relationship between planning and controlling

#### Part B: Business Finance and Marketing

Unit	Topic deleted
Unit 11: Marketing	Physical Distribution – components and channels of distribution
Unit 12: Consumer Protection	Consumer Protection: importance Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)