BHAVAN'S
BHAGWANDAS PUROHIT VIDYA MANDIR
NAGPUR

CURRICULUM PLAN

SESSION 2019-2020

Std :- X Subject : CHEMISTRY

Smt. Anju Bhutani
Principal
Bhavan's B. P. Vidya Mandir,
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BHAVAN'S B.P.VIDYA MANDIR, NAGPUR

CURRICULUM PLAN - SESSION: 2019-2020

SUBJECT: CHEMISTRY **STD: X**

Sr.No.	NAME OF THE TEACHER	BRANCH	PHONE NO.	SIGNATURE
1.	SMT.ASHA ANASANE (Co-ordinator)	C.L	9975017138	3/5/19
2.	SMT. SANDHYA DESHPANDE	C.L	9049898208	3/5/19
3.	SMT. SONALI DONGRE	C.L	9921417733	
4.	SMT. MEENA SALODKAR	C.L.	9822789905	3/5/19
5.	SMT.MANISHA RATHKANTHIWAR (Co-ordinator)	SKN	9822737056	
6.	SMT.NEHA GAURIHAR	SKN	9923860158	3/5/19
7.	SMT.RASHMI CHOURIKAR	SKN	9923682709	3/5/19
8.	MRS.A. SUSHEELA	ASHTI	9850503529	3/5/19
9.	DR.(MRS.) MANISHA D. BORIKAR	ASTHI	9960043078	3/5/19
10	SMT.TABASSUM ALI (Co-ordinator)	ASHTI	8390605665	3/5/19.
11.	MS. AAFIYA RIYAZ	ASHTI	7757936376	3/5/19
12.	SMT.ERENA SAYANKAR (Co-ordinator)	TRMN	9860069925	3/5/19
13.	SMT. PUSHPITA CHAKRABORTY	TRMN	9373111781	3/5/19.
14.	SMT.NANDINI MUKHERJEE (Co-ordinator)	MOUDA	9657822671	
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CURRICULUM PLAN

2019-2020

SUBJECT :- CHEMISTRY

STD :- X

MONTH	WEEKLY DATES	NO. OF PERIODS	NAME OF THE CHAPTERS	TOPICS	NO.OF PERIODS REQUIRED	ACTIVITIES/EDUCOMP MODULE	ASSIGNMENTS/ EVALUATION	LEARNING OUTCOMES
April	1st & 2nd week 5-12	3	**1. Chemical reactions and Equations**	1.1 Chemical equations	3	Burning of magnesium ribbon	Writing observation,result and conclusion for intext activities.	Students will be able to- Write chemical equation.
April	3rd week 16-20	2		1.1.2 Balancing of chemical equations	2	Action of dil. sulphuric acid on zinc	Chemical equations are given for balancing	Balance chemical equation Identify and differentiate the types of chemical reaction

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April	4th & 5th week 20-30	3		1.2 Types of chemical reactions 1.2.1 Combination reaction 1.2.2 Decomposition reaction 1.2.3 Displacement reaction	1 1 1	1.Heating of lead nitrate. 2.Heating of ferrous sulphate crystals 3.Reaction of black and white photography Reaction of Fe and CuSO4.	Intext questions are discussed & given as homework.	
June	3rd week 14-15	1		1.2.4 Double displacement	1	Reaction of lead nitrate with lead iodide **Experiment 1**: A Lab activity is performed on Types of chemical reactions.		
June	4th week 17-22	3		1.2.5 Oxidation & Reduction 1.3.1 Corrosion 1.3.2 Rancidity Question and answers	1 1 1	**Educomp Module**: Oxidation & Reduction **Exit-card:-Based on redox reaction will be conducted.**		Perform and observe changes during chemical reactions. Understand the concepts of oxidation, reduction, corrosion. Rancidity and its effects in day to

								day life.
June	5th week 24-29	3	**3. Metals & Non-metals**	3.1 Physical properties of metals and non-metals. 3.2 Chemical properties of metals.	2 1	Physical properties of metals will be demonstrated in the class.	Students are made to learn equations everyday & tested.	**Students will be able to-** Understand the concept of metals and non metals and distinguish between them on the basis of their physical and chemical properties
July	1st week 1-6	3		3.2.1 What happens when metals are burned in air? 3.2.2 What happens when metals react with water? 3.2.3 What happens when metals react with acids?	1 1 1	Lab activity: - Burning of metals - Reaction of metals with acid and water		
July	2nd week 8-12	2		3.2.4 How do metals react with solutions of other metals- displacement reactions. 3.2.5 Reactivity series	1 1	**Experiment 2**: A Lab activity is performed on displacement reactions **Educomp Module:** Reactivity series of metal Relative reactivity of metals	To learn the various steps involved in the metallurgy of metals	Identify the order of reactivity of various metals by performing displacement reactions .

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July	3rd week 15-20	3		3.3 How do metals & non metals react ? 3.3.1 Properties of ionic compounds Questions and answers	1 1 1	**Educomp Module.** Properties of ionic compounds	To enlist properties of ionic compounds	Understand the concept of ionic bond formation
July	4th & 5th week 22 - 31	4		3.4 Occurrence of metals 3.4.1 Extraction of metals 3.4.2 Enrichment of ore 3.4.3 Extracting metals low in activity series 3.4.4 Extracting metals in the middle of the activity series	1 1 1 1	Educomp Module: Extraction of metals **Concept map:-Based on extraction of metals**	To learn various steps involved in the metallurgy of metals	Understand various extraction processes for metals depending on their reactivity
PERIODIC TEST I (22.7.2019) **Portion:** **Ch:1 Chemical reactions and equations reactions**								
Augu st	1st WEEK 1 - 3	1		3.4.5 Extracting metals towards the top of activity series	1			

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August	2nd week 5-9	2		3.4.6 Refining of metals 3.5 Corrosion 3.5.1 Prevention of corrosion. Question And answers	1 1	Educomp Module: Corrosion	Intext questions & Exercise questions are discussed & given as H.W	Process of corrosion and its prevention
August	3rd week 13-16	1	**2. Acids,Bases and Salts**	2.1 Chemical properties of acids & bases 2.1.1 Acids & bases in lab 2.1.2 Reaction of acids with metals	1	Ed.Mod: Indicators for testing acids & bases	Students are made to learn equations	**Students will be able to-** Distinguish between acids and bases on the basis of their chemical properties.
August	4 th week 19-23	3		2.1.3 Reaction of acids with metal carbonates & bicarbonates 2.1.4 Reaction of acids & bases with each other. 2.1.5 Reaction of metallic oxides with acids	1 1 1	Exp 3 : A lab activity is performed to study the properties of dil HCl & NaOH .	Students are made to learn equations	Perform Various Chemical reactions of acids and bases and observe the changes.
PERIODIC TEST-II(26/8/19) CH.3 METALS AND NON-METAL								

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Aug	5th week 26-31	3		2.1.6 Reaction of non-metallic oxides with bases. 2.2 What do all acids & bases have in common? 2.2.1 Acids & bases in H_2O 2.3 How strong are acids & bases.	1 1 1	**Ed.Mod:** Conduction of electricity in water pH scale.		
Sept	1st week 3-5	1		2.3.1 Importance of pH in everyday life.				Understand the concept of pH and will perform activities to test the pH of various samples Understand the methods of preparation and uses of various chemical compounds obtained from salt.
Sept	2nd week 9-14	3		2.4 More about Salts. 2.4.1 Family of Salts 2.4.2 pH of salts 2.4.3 Chemicals from common salt.	1 1 1	**Exp 4** is A lab activity is performed to test the pH of various samples of acids & bases.		
Sept	3rd week 16-20	3		2.4.4 Are the crystals of the salts dry? Question and answers **PORTION COMPLETION DATE – 17.09.19** **HALF YEARLY** Revision	1 1 1	Ed.Mod: Water of crystallisation	Intext questions & Exercise questions are discussed & given as H.W	

HALF YEARLY EXAM FROM 23/9/19-05/10/19

Portion:

Ch:1 Chemical reactions and equations (8M)
Ch: 2 Acid , Bases And Salts (8M)
Ch:3 Metals and non metals (9M)

Praticals:

Exp 1: To study types of chemical reactions
Exp 2: To study metal displacement reactions
Exp 3 : To study pH of given sample

MONTH	WEEKLY DATES	NO. OF PERIODS	NAME OF THE CHAPTERS	TOPICS	NO.OF PERIODS REQUIRED	ACTIVITIES/ EDUCOMP MODULE	ASSIGNMENT/ EVALUATION	LEARNING OUTCOMES
October	2nd week 9-12	2	**4.Carbon & its compounds**	4.1 Bonding in Carbon-The covalent bond 4.2 Versatile nature of carbon	1 1	Ed.Mod: Introduction to covalent bond Types of covalent bond.		**Students will be able to-** Understand the covalent bond formation and versatile nature of carbon
October	3rd week 14-19	3		4.2.1 Saturated & unsaturated compouds 4.2.2 Chains,branches & rings 4.2.3 Will you be my friend 4.2.4 Homologous series	1 1 1	Demonstration of 3-D models of carbon compounds.	Students are asked to enlist the homologues of different functional groups	Develop skills of writing the structure Understand chemical properties of organic compounds with various functional groups(Alcohols and Acids)

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October	4th week 21-23	1		4.2.5 Nomenclature of carbon compounds	1		Extra questions are given on nomenclature	Develop skills of writing the structure naming the organic compounds
November	1st week 1-2	1		4.2.5 Nomenclature of carbon compounds	1			
.....DIWALI VACATION (25.10.2019 TO 31.10.2019).....								
November	2nd week 4-8	2		4.3 Chemical Properties 4.3.1 Combustion 4.3.2 oxidation 4.3.3 Addition reactions 4.3.4 Substitution reactions	1 1 	Demonstrative activity on oxidation of ethanol.		Write chemical equations of reactions of carbon compounds
November	3rd week 11-16	3		4.4 Some important carbon compounds 4.4.1 Properties of ethanol.	1 1 1			
November	4th week 18-23	3		4.4.2 Properties of ethanoic acid. 4.5 Soaps & detergents	1 2	Exp-5 A lab activity is performed on properties of		

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				Questions and answers		ethanoic acid		
November	5th week 25-23	3	**5.Periodic classification of elements**	5.1 Making order out of chaos 5.1.1 Dobereiner's triads 5.1.2 Newlands law of octaves	1 1 1	Exp-6 Action of soap on hard & soft water Ed.Mod: Dobereiner's triads	Recapitulation sheet Questions and exercises are discussed and given as homework	Formation of Soap Its cleansing action and differentiate between soaps and detergents. **Students will be able to-** Understand classification and systematic study of elements
December	1 week 2-7	3		5.2 Mendeleev's periodic table 5.2.1 Achievements 5.2.2 Limitations 5.3 Making order out of chaos.The modern periodic table. 5.3.1 Position of elements in modern Periodic table	1 2	Ed.Mod: Mendeleev's periodic table		Appreciate various ways of classification of elements and their merits and demerits Interpret the various trends in modern periodic table
PERIODIC TEST-III(09/12/19)- Ch :4 Carbon and its compounds (Till-4.3.4 Substitution reactions)								

December	2nd week 9-16	3		5.3.2 Trends in modern periodic table **Portion completion for Board Exam** **Dt : 16.12.2019**	1 1 1	Ed.Mod: Modern periodic table		

CHRISTMAS VACATION FROM DECEMBER 23 rd 2019 TO JANUARY 1st 2020

	PRELIMINARY EXAMINATION - 03/01/20 to13/01/20 **Portion:** **Ch:1 Chemical reactions and equations (3M)** **Ch:2 Acid , Bases And Salts(6M)** **Ch:3 Metals and non metals(6M)** **Ch :4 Carbon and its compounds (6M)** **Ch : 5 Periodic classification of elements(4M)** **Praticals:** **Exp 1: To study types of chemical reactions** **Exp 2: To study metal displacement reactions** **Exp 3 : To study the Properties of acids and bases** **Exp 4 : To study pH of given sample** **Exp 5: To study the properties of Ethanoic acid** **Exp 6: To study action of soap on hard and soft water**
March	**AISSE - 2020**

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Principal, SKN

Smt. V. Bisen
Principal ,Ashti

Smt. P. Iyer
Principal, TRMN

Ms. Sarbani Bose
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Mouda

Ms. Kirti Mishra
Principal, Wardha

Smt. A. Shastri
Director

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BHAVAN'S B. P. VIDYA MANDIR

NAGPUR

SESSION – 2019-2020

STD: X

SUBJECT : CHEMISTRY

LIST OF LABORATORY EXPERIMENTS

Term I

EXP. C1

*** TO PERFORM & OBSERVATION FOLLOWING REACTIONS :**

i) Action of water on Quick Lime

ii) Action of CuSO4 Solution on Iron (Fe).

iii) Reaction between Na_2SO_4 & $BaCl_2$.

iv) Action of heat on $FeSO_4$ crystal.

** CLASSIFY THEM INTO REACTIONS :

A) COMBINATION

B) DECOMPOSITION

C) DISPLACEMENT

D)DOUBLE DISPLACEMENT

EXP. C2

*** TO OBSERVE THE ACTION OF Zn,Fe,Cu & Al METALS ON THE FOLLOWING SALT SOLUTIONS : i)** $ZnSO_4$ (aq.) ii) $FeSO_4$ (aq.) iii) $CuSO_4$(aq.) iv) $Al_2(SO_4)_3$ (aq.)

**** ARRANGE Zn,Fe,Cu & Al IN THE DECREASING ORDER OF REACTIVITY BASED ON THE ABOVE RESULTS.**

EXP. C3

A) TO STUDY THE PROPERTIES OF ACID(HCl) BY THEIR REACTION WITH :

i) Litmus Solution (Blue/Red) ii) Zinc Metal iii) Solid Sodium Carbonate.

B) TO STUDY THE PROPERTIES OF BASE(NaOH) BY THEIR REACTION WITH :

i) Litmus Solution (Blue/Red) ii) Zinc Metal iii) Solid Sodium Carbonate.

EXP. C4

TO FIND OUT 'pH' OF FOLLOWINGS :

A) Dil. HCl Solution
B) Dil. NaOH Solution
C) Dil. CH_3COOH Solution
D) Dil Na_2CO_3 Solution
E) Water.

TERM II

EXP. C5

A) TO STUDY THE PROPERTIES OF ETHANOIC ACID (CH_3COOH) :

I) Colour
i) Solubility in Water
ii) Effect of Litmus.
iii) Reaction with Sodium Bicarbonate.($NaHCO_3$)

EXP. C6

Action of soap on hard and soft water

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STRUCTURE OF MULTIPLE ASSESSMENT (2019-2020)

Subject: CHEMISTRY (Term I) Class: X

Topic: CHEMICAL REACTIONS & EQUATIONS

Sub-topic: REDOX REACTIONS

Nature of Task: Individual (POST CONTENT)

Task: EXIT CARDS

Skills Assessed: Knowledge, understanding, Application and Analytical skills of students.

Learning Objectives: 1) Enable the students to understand and apply the concept.

2) To develop analytical skills.

3) Enable the students to co-relate the various concepts with each other.

Procedure: 1) Exit ticket is simply a questionare that is posed to all students prior to class ending.

2) The exit cards will be distributed to all students.

3) Students will write the answers on the exit card and hand over it to the teacher before the teacher exits the class.

4) This assessment technique engages all students and provides all important evidence of the student learning for the teacher.

5) Exit cards help students reflect, what they have learnt and think critically about the new information.

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STRUCTURE OF MULTIPLE ASSESSMENT (2019-2020)

Assessment Criteria: Students will assessed on the basis of (i) knowledge (ii) Understanding (iii) critical thinking (iv) Application. (v) Categorization.

Duration of the Task: 10 minutes

Follow up / Feedback: After assessing the exit cards the teacher will guide the students who could not perform the task satisfactorily.

Assessment Rubric: Five questions 1 mark each.

5 (Q) × 1 (M) = 5 marks.

Subject Coordinator's Name	*CL*	ASHA ANASANE	*Signature with Date*	31/5/19
	SKN	Manisha Rathkanthiwar		
	Ashti	Tabassum. Ali		31/5/19
	TRMN	Reena Sayankar		31/5/19
	Koradi	—		—

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STRUCTURE OF MULTIPLE ASSESSMENT (2019-2020)

Subject: Chemistry (Term II) Class: X

Topic: Metals and Nonmetals

Sub-topic: Extraction of metal.

Nature of Task: Post Content (Individual)

Task: Concept Map

Skills Assessed: Knowledge, understanding, application, Interpretation and analytical skills

Learning Objectives: 1) Enable the Students to understand the relationships between ideas, Concept, and the Scientific terminology. 2) Encourages Students to think Creatively about the Subject 3) Helps memory recall 4) Enable the Students to develop higher-level thinking skills (Create, analyze, evaluate)

Procedure: After explanation of the topic Students will be asked to Solve the Concept Map The concept map will be formulated using Concept taught and few blanks will be given related to the Concept. The Students will be asked to apply the Concept and Complete the Concept Map as directed. The clues and hint points are given to understand the Specific terminology.

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STRUCTURE OF MULTIPLE ASSESSMENT (2019-2020)

Assessment Criteria: Students will be assessed on the basis of 1) Specific terms.
2) Connection between the Ideas.
3) Application.
4) Interpretation.

Duration of the Task: 1 period.

Follow up / Feedback: The Students who are unable to Perform well, will be explained the entraction process completely and given the proper practice to understand the Concept.

Assessment Rubric: 1 Mark for each related Concept 1x5 = 5
(Correct 5 will be considered)

Subject Coordinator's Name			Signature with Date	
	CL	ASHA ANASANE		3/5/19
	SKN	MANISHA RATHKANTHIWAR		
	Ashti	TABASSUM ALI		3/5/19
	TRMN	ERENA SAYANKAR		3/5/19
	Koradi	—		—

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STRUCTURE OF MULTIPLE ASSESSMENT (2019-2020)

Portfolio (Notebook + Peer assessment)

Subject: Science (Chemistry) Class: X

Topic: Note Book Assessment

Sub-topic: For all chapters

Nature of Task: Post content

Task: Notebook Submission

Skills Assessed: Regularity, completion of assignment, neatness, upkeep of notebook

Learning Objectives: To assess the maintenance of subject notebooks.

To assess the way a student writes the answers, draw diagrams, Index and overall presentation.

Procedure: The students will submit their notebooks after the completion of each chapter, write extra questions, assignment given, draw respective diagrams.

The assignment will be exchanged amongst the peer and assessment will be done under the guidance of teacher

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STRUCTURE OF MULTIPLE ASSESSMENT (2019-2020)

Assessment Criteria: Assessment will be on the basis of regularity, completion of assignment, Neatness upkeep of notebooks.

Duration of the Task: On regular basis

Follow up / Feedback: The subject teacher will give a date to submit the notebook after the completion of the chapter
Those who are not able to complete will be guided by the teacher and a peer mentor can be provided for help. Teacher will keep a record of regular submission in register.

Assessment Rubric: Regularity - 2M
Completion of Assignment - 2M
Neatness and upkeep of notebook - 1M
TOTAL - 5M.

Subject Coordinator's Name			Signature with Date	
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	Ashti	TABASSUM ALI		3/5/19
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STRUCTURE OF MULTIPLE ASSESSMENT (2019-2020)

Subject: Chemistry Class: X

Topic: Chemistry Practical

Sub-topic: —

Nature of Task: Post content

Task: Individual Activity

Skills Assessed: i) observation (ii) Application (iii) Analytical iv) Psychometric

Learning Objectives: i) To make the students understand theoretical concept ② To make the students develop scientific experimental skill ③ Learning by doing ④ keen observation ⑤ Safety measures and work with precision.

Procedure: i) Theoretical concepts related to the experiment will be revised in brief ② Teacher will demonstrate the experiment ③ Students will be given the apparatus for performing the activity individually ④ Students will note observations and will draw the conclusions ⑤ Teacher will observe the students performing the experiments and guide them if needed. ⑥ Students will be asked to take proper precautions while performing the experiment.

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STRUCTURE OF MULTIPLE ASSESSMENT (2019-2020)

Assessment Criteria: Students will be assessed on the basis of:
i) Practical work (ii) Performance of experimental task.
iii) Maintaining record of observation (iv) Deriving conclusion of experiment. (v) Relevant respons in viva questions.

Duration of the Task: One Period.

Follow up / Feedback: i) Feedback will be obtained by asking Viva voce.
2) Teachers will encourage and guide the students.
3) Those students who will not be able to perform well will be guided and asked to perform the task again

Assessment Rubric: (1) Practical work: a) Takes interest
b) Learns and observes
c) Takes precautions and safety measure } 1M

(2) Performance of task: (a) Completes task precisely
(b) Works independently } 2M

(3) Practical Record (a) Completion in time
(b) Neatness } 2M

Subject Coordinator's Name	***CL***	ASHA ANASANE	***Signature with Date***	3/5/19
	SKN	Manisha Rathkanthiwar		
	Ashti	Tabassum -		3/5/19
	TRMN	Veena Sayankar		03/05/19
	Koradi	—		—

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ANNEXURE-II

HALF YEARLY EXAMINATION

Std.: X

Portion Completion Date: 17-09-2019

Subject: Science

Exam date: 23-9-2019

SUBJECT	CHAPTER	WEIGHTAGE	QUE NO	QUE. PAPER PATTERN
BIOLOGY	Ch.06 Life Processes	10	13,14,15,16 28,29	4QX1=4M; 2QX3=6M
	Ch.07 Control and Co-ordination	8	30 35	1QX3=3M; 1QX5=5M
	Ch.08 How Do Organisms Reproduce?	9	17,18,19,20 36	4QX1=4M; 1QX5=5M
CHEMISTRY	Ch.01 Chemical Reactions and Equations	8	7,8 25,26	2QX1=2M; 2QX3=6M
	Ch.02 Acid, Bases and Salts	8	9,10,11 33	3QX1=3M; 1QX5=5M
	Ch.03 Metals and Non-metals	9	12 27 34	1QX1=1M; 1QX3=3M; 1QX5=5M
PHYSICS	Ch.10 Light – Reflection and Refraction	14	1,2,3 21,22 31	3QX1M=3M; 2QX3=6M; 1QX5=5M
	Ch.11 Human Eye and Colourful World	14	4,5,6 23,24 32	3QX1M=3M; 2QX3=6M; 1QX5=5M

Note: Internal choice of one 3 mark question, one 5 mark question and one 1 mark question in all three subjects

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ANNEXURE-II

PERIODIC TEST-I

Std.: X **Portion Completion Date: 12-7-2019**

Subject: Science **Exam date: 22-07-2019**

SUBJECT	CHAPTER	WEIGHTAGE	QUE NO	QUE. PAPER PATTERN
BIOLOGY	Ch.06 Life Processes	6	3,4,5 10	3QX1=3M 1QX3=3M
CHEMISTRY	Ch.01 Chemical Reactions and Equations	7	6,7,8,9 11	4QX1=4M 1QX3=3M
Physics	Ch10 Light – Reflection and Refraction (10.3.2 included)	7	1,2 12	2QX1M = 2M 1QX5M = 5M

PERIODIC TEST-II

Std.: X **Portion Completion Date: 16-08-2019**

Subject: Science **Exam date: 26-8-2019**

SUBJECT	CHAPTER	WEIGHTAGE	QUE NO	QUE. PAPER PATTERN
BIOLOGY	Ch.07 Control and Co-ordination	6	7,8,9 11	3QX1=3M 1QX3=3M
CHEMISTRY	Ch.03 Metals and Non-metals	7	5,6 12	2QX1M = 2M 1QX5M = 5M
PHYSICS	Ch.10 Light - Reflection and Refraction (From 10.3.3 onwards) Ch.11 Human Eye and Colourful World (up to 11.4 included)	7	1,2,3,4 10	4QX1=4M 1QX3=3M

PERIODIC TEST-III

Std.: X **Portion Completion Date: 01-12-2019**

Subject: Science **Exam date: 9-12-2019**

SUBJECT	CHAPTER	WEIGHTAGE	QUE NO	QUE. PAPER PATTERN
BIOLOGY	Ch.09 Heredity and Evolution	7	8,9 12	2QX1M = 2M 1QX5M = 5M
CHEMISTRY	Ch.04 Carbon and its Compounds(till 4.3.4 included)	7	4,5,6,7 11	4QX1=4M 1QX3=3M
PHYSICS	Ch.12 Electricity	6	1,2,3 10	3QX1=3M 1QX3=3M

PRELIMINARY EXAMINATION

Std.: X

Portion Completion Date: 16-12-2019

Subject: Science

Exam date: 3-1-2020

SUBJECT	CHAPTER	WEIGHTAGE	QUE NO	QUE. PAPER PATTERN
BIOLOGY	Ch.06 Life Processes	8	13,14,15 35	3QX1=3M; 1QX5=5M
	Ch.07 Control and Co-ordination	3	28	1QX3=3M
	Ch.08 How Do Organisms Reproduce?	5	16,17 29	2QX1=2M; 1QX3=3M
	Ch.09 Heredity and Evolution	6	18 36	1QX1=1M, 1QX5=5M
	Ch.15 Our Environment	2	19,20	2QX1=2M
	Ch.16 Management of Natural Resources	3	30	1QX3=3M
CHEMISTRY	Ch.01 Chemical Reactions and Equations	3	25	1QX3=3M
	Ch.02 Acid, Bases and Salts	6	7 33	1QX1=1M, 1QX5=5M
	Ch.03 Metals and Non-metals	6	8 34	1QX1=1M, 1QX5=5M
	Ch.04 Carbon and its Compounds	6	9,10,11 26	3QX1=3M, 1QX3=3M
	Ch.05 Periodic Classification of Elements	4	12 27	1QX1=1M, 1QX3=3M
PHYSICS	Ch.10 Light – Reflection and Refraction	6	1,2,3 21	3QX1=3M, 1QX3=3M
	Ch.11 Human Eye and Colourful World	6	22,23	2QX3=6M
	Ch.12 Electricity	7	4,5 31	2QX1=2M; 1QX5=5M
	Ch.13 Magnetic Effects of Electric Current	6	6 32	1QX1=1M, 1QX5=5M
	Ch.14 Sources of Energy	3	24	1QX3=3M

Note: Internal choice of one 3 mark question, one 5 mark question and one 1 mark question in all three subjects

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