

# SYLLABUS BIFURCATION

## CLASS-12TH

### SUBJECT- HINDI

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MONTH	SYLLABUS
<b>APRIL</b>	<ol style="list-style-type: none"><li>1. आरोह- आत्मपरिचय, एक गीत।</li><li>2. भक्तिन (गद्य)</li><li>3. वितान- सिलवर वैडिंग</li><li>4. अभि. व. मा. - विभिन्न माध्यमों के लिए लेखन।</li></ol>
<b>MAY</b>	<ol style="list-style-type: none"><li>1. आरोह- पतंग(काव्य)</li><li>2. कविता के बहाने, बात सीधी थी(काव्य)</li><li>3. बाजार दर्शन (गद्य)</li><li>4. अभि. व. मा. - पत्रकारिय लेखन का विभिन्न रूप व लेखन प्रक्रिया।</li></ol>
<b>JULY</b>	<ol style="list-style-type: none"><li>1. आरोह- कमरे में बंद अपाहिज</li><li>2. काले मेघा पानी दे (गद्य)</li><li>3. वितान- जूझ(गद्य)</li><li>4. अभि. व. मा. - विशेष लेखन</li><li>5. अभि. व. मा. - कैसे बनती है कविता</li></ol>
<b>AUGUST</b>	<ol style="list-style-type: none"><li>1. आरोह- सहर्ष स्वीकारा है।</li><li>2. उषा (काव्य)</li><li>3. पहलवान की ढोलक (काव्य)</li><li>4. चार्ली चैप्लिन यानी हम सब (गद्य)</li><li>5. अभि. व. मा. - नाटक लिखने का व्याकरण</li></ol>
<b>SEP.</b>	<ol style="list-style-type: none"><li>1. आरोह- बादल-राग (काव्य)</li><li>2. नमक (गद्य)</li><li>3. अतीत में दबे पांव</li><li>4. अभि. व. मा. - कैसे लिखें कहानी</li></ol>
<b>OCT.</b>	<ol style="list-style-type: none"><li>1. आरोह- लक्ष्मण मूर्च्छा व राम विलाप (काव्य)</li><li>2. शिरीष के फूल (गद्य) गजल व रुबाईयां(काव्य)</li><li>3. अभि. व. मा. - कैसे करें कहानी का नाट्य रूपांतरण।</li></ol>
<b>NOV.</b>	<ol style="list-style-type: none"><li>1. आरोह- छोटा मेरा खेत, बगुलों के पंख (काव्य)</li><li>2. जालि प्रथा व श्रम विभाजन</li><li>3. डझयश्रभ वै पन्ने।</li><li>4. अभि. व. मा. - कैसे बनता है रेडियो नाटक।</li><li>5. नए व अप्रत्याशित विषयों पर लेखन।</li></ol>

**SYLLABUS 2022-23****CLASS – XII****SUB:- PHYSICS**

<b>MONTHS</b>	<b>TOPIC TO BE COVERED</b>
APRIL	UNIT-1 ELECTROSTATICS CH-1 ELECTRIC CHARGES AND FIELD CH-2 ELECTROSTATIC POTENTIAL AND CAPACITANCE
MAY	UNIT-2 CURRENT ELECTICITY CH-3 CURRENT ELECTRICITY
JUNE	SUMMER VACATIONS
JULY	UNIT-3 MAGNETIC EFFECTS OF CURRENT AND MAGNETISM CH-4 MOVING CHARGES AND MAGNETISM CH-5 MAGNETISM AND MATTER 2 EXPERIMENTS
AUGUST	UNIT-4 ELECTROMAGNETIC INDUCTION & AC CH-6 ELECTROMAGNETIC INDUCTION CH-7 ALTERNATING CURRENT UNIT-5 CH-8 ELECTROMAGNITIC WAVES 2 EXPERIMENTS
SEPTEMBER	UNIT-9 ELECTONIC DEVICES CH-14 SEMICONDUCTOR ELECTRONICS
OCTOBER	UNIT-6 OPTICS CH-9 RAY OPTICS AND OPTICAL INSTRUMENT CH-10 WAVE OPTICS 2 EXPERIMENTS
NOVEMBER	UNIT-7 CH-11 DUAL NATURE OF RADIATION AND MATTER UNIT-8 CH-12 ATOMS CH-13 NUCLEI 2 EXPERIMENTS
DECEMBER	
JANUARY	
FEBRUARY	
MARCH	

**Class - XII**  
**Chemistry**  
**Session 2022-23**

**Mr. Abhishek**

<b>Month</b>	<b>Syllabus</b>
<b>April</b>	<b>Theory :</b> Unit 2: Solutions Unit 4: Chemical Kinetics <b>Practical :</b> Surface Chemistry, Chemical kinetics
<b>May</b>	<b>Theory :</b> Unit 10 : Haloalkanes and Haloarenes <b>Practical :</b> Preparation of organic compounds
<b>June</b>	Summer Vacations
<b>July</b>	<b>Theory :</b> Unit 7 : d&f block elements <b>Practical :</b> Thermochemistry, Chromatography
<b>August</b>	<b>Theory :</b> Unit 15 : Biomolecules <b>Practical :</b> Test for fats, carbohydrates, proteins.
<b>September</b>	<b>Theory :</b> Revision Unit 2,4,7,10&15 Half yearly exam
<b>October</b>	<b>Theory :</b> Unit 3 : Electrochemistry Unit11 : Alcohol, Phenol & ether <b>Practical :</b> Electrochemistry
<b>November</b>	<b>Theory :</b> Unit 9 : Coordination Compounds Unit 12 : Aldehyde , Ketone & Ether  <b>Practical :</b> Preparation of inorganic compounds
<b>December</b>	<b>Theory :</b> Revision full syllabus and doubt sessions  <b>Practical :</b> Qualitative analysis, test for functional groups
<b>January</b>	<b>Theory :</b> Revision full syllabus and <b>Pre-Board Exam</b> <b>Practical :</b> Determination of concentration(titrations)
<b>February</b>	<b>Theory :</b> Revision Full Syllabus <b>Practical :</b> Repeat practical
<b>March</b>	<b>Final exam</b>

## Class 12 Academic calendar 2022-23

### Subject Biology

Month	Syllabus
April	<b>Unit 1</b> <b>Chapter-2: Sexual Reproduction in Flowering Plants</b> <b>Chapter-3: Human Reproduction</b> Experiment -1. Prepare a temporary mount to observe pollen germination. 2. Collect and study soil from at least two different sites and study them for texture, moisture content, Ph and water holding capacity. Correlate with the kinds of plants found in them.
May	<b>Chapter-4: Reproductive Health</b> <b>Unit 2 Genetics and Evolution</b> <b>Chapter-5: Principles of Inheritance and Variation</b> 3 Collect water from two different water bodies around you and study them for pH, clarity and presence of any living organism. 4. Prepare a temporary mount of onion root tip to study mitosis.
June	<b>Summer vacation</b>
July	<b>Chapter-6: Molecular Basis of Inheritance</b> <b>Unit-3</b> <b>Chapter 7: Evolution</b> 5. Study the effect of different temperatures or three different pH on the activity of salivary amylase on starch. 6. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.
August	<b>Unit -4</b> <b>Chapter-8: Human Health and Diseases</b> <b>Chapter-10: Microbes and human welfare</b> 1. Flowers adapted to pollination by different agencies (wind, insects, birds). 2. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through
September	<b>Unit 5 Biotechnology and its Applications</b> <b>Chapter-11: Biotechnology - Principles and Processes</b>
October	<b>Chapter 12 : Biotechnology and its applications</b> 3. Meiosis in onion bud cell or grasshopper testis through permanent slides.

<b>November</b>	<b>Unit-6 Ecology and Environment</b> <b>Chapter-13: Organisms and Populations</b> <b>Chapter 14 Ecosystem</b> <b>Chapter-15: Biodiversity and its Conservation</b> Prepared pedigree charts of any one of the genetic traits such
<b>December</b>	<b>preboard Exam</b>
<b>January</b>	4. T.S. of blastula through permanent slides (Mammalian).
<b>February</b>	<b>Revision</b>
<b>March</b>	<b>Annual exam</b>

GURUKUL SR. SEC. SCHOOL, MATINDU  
 SPLIT-UP SYLLABUS  
 SESSION 2021-22  
 CLASS: XII SUBJECT: BUSINESS STUDIES (054)

S.N.	Month	NAME OF THE UNIT	LEARNING OUTCOME
1	April	Nature and Significance of Management	Students will be able to know concept of management, Principles of Management efficiency and effectiveness , significance and principles General and scientific management
2	May	Business Environment.	Students will be able to know concept and importance of  Business environment and will know about different  Dimensions of business environment.
3	June		
4	July	Planning , Organising	Students will be able to know concept , importance and  Procedure of planning, organising and staffing. They will  be able to know structure of organization, elements and  Importance of delegation and decentralisation.
5	August	Staffing, Directing	Students will be able to know concept and importance of  Staffing, training and development, directing.They will be  Know process of selection, methods of training, Maslow's  Theory of motivation, financial and non-financial incentive  Styles of leadership, formal and informal communication  and Barriers of effective communication
6	September	Controlling	Controlling Students will be able to know concept , importance and Financial Management. Process of controlling and financial management and  Financial planning and will know different factors

			Affecting three financial decisions and requirements of fixed and working capital.
7	October	Financial Market,	Students will be able to know the concept of financial Marketing Management market, capital market, money market, Stock exchanges and SEBI along with their functions and instruments.
8	November	Marketing Management	Students will be able to know the concept of Marketing, Consumer Protection marketing mix using examples from environment.  Students are also present and potential consumer so  They would be able to learn their rights, duties and obligations.
9	December	1st Pre-Board Examination & Revision.	
10	January	2nd Pre-Board Examination & Revision.	
11	February	CBSE Practical Examination	
12	March	CBSE Board Examination	

## Subject – 12<sup>th</sup> Economics

### Academic calendar: 2021-2022

Months/ year	Topic covered
April, 2021	<b>Indian economic development:-</b> Unit 1) Development policies and experience (1947-1990) Unit 2) economic reforms since 1991 <b>Activities:</b> - 1.) Compare the map of British India with that of independent india and find out the areas that became parts of Pakistan. 2.) Prepare a list of items that were exported from and imported into india during the British rule. 3.) Collect newspaper cutting related to the world bank, IMF and WTO. Discuss the views shared by the developed and developing countries on farm subsidies.
May, 2021	<b>Introductory Macroeconomics :-</b> Ch. 5 and 6) money and banking <b>Activities:</b> - 1.) Visit a bank in your locality with your parents. Observe and find out the functions it performs. 2.) Collect data from 30 persons of your locality regarding their daily consumption of various commodities. Then rank the persons on the basis of relatively better off and worse, to get the degree of relative poverty.
<b>June, 2021</b>	<b>Summer vacations</b>
July, 2021	<b>Introductory Macroeconomics :-</b> Ch. 1) introduction of macro economics Ch. 2) Basic concepts of national income Ch. 3) national income and related aggregates Ch. 4) methods of calculating national income. <b>Activities:</b> - 1.) Make diagrammatical presentation of calculating national income.
August, 2021	<b>Introductory Macroeconomics :-</b> Unit- 3.) Determination of income and employment <b>Indian economic development:-</b> Ch. 7) employment: growth, informalisation and other issues <b>Activities:</b> - 1.) Select a region, say a colony and divide it into 3-4 sub-regions. Conduct a survey by which you can collect the detail of activity each person living there in engaged in. derive the workers- population ratio for all the region. Interpret the results for differences in workers-population ratio of the different sub-region. 2.) in recent years, you may have noticed that many voluntary organizations also take initiatives to generate employment hilly and dry land regions. If you find such initiatives in your locality, visit and prepare a report.
September, 2021	<b>Indian economic development:-</b> Ch. 5) Human capital formation in India Ch. 6) rural development <b>Half-yearly Examination</b> <b>Activities:</b> - 1) Take three families from different strata (1) very poor (11) middle class (111) affluent. Study the expenditure pattern of the family on the education of male and female children. 2.) prepare a list of recent schemes and their objectives from the government



	website <a href="https://www.rural.nic.in">https://www.rural.nic.in</a>
October, 2021	<p><b>Introductory Macroeconomics :-</b>  Ch. 10) foreign exchange rate  Ch. 11) government budget and the economy  Ch. 12) Balance of payment</p> <p><b>Indian economic development:-</b>  <b>Activities:-</b> 1.) Study of government budget which is announced in every year of February.  2.) Find out what infrastructure projects are in progress in your area. Then, find out</p> <ol style="list-style-type: none"> <li>I. The budget allotted for the project</li> <li>II. The sources of its financing.</li> <li>III. How much employment will it generate?</li> <li>IV. What will be the overall benefits after its completion?</li> <li>V. Company engaged in the project.</li> </ol>
November, 2021	<p><b>Indian economic development:-</b>  Ch. 7.) Environment and sustainable development  Ch. 8.) comparative development experience of india and its neighbours</p> <p><b>Activities: -</b> 1. ) Do you think India can introduce one-child norm like china to reduce population growth? Organize a debate on the policies that India can follow to reduce population growth.  2.) Make a list of items that can be recycled.</p>
December, 2021	<b>Pre-board examination</b>
January, 2022	Revision Practice of sample papers <b>Practical</b> <b>Second pre-Board examination</b>
February, 2022	<b>Revision of whole syllabus</b>
March, 2022	<b>Board examination</b>

# UNIT-WISE BIFURCATED SYLLABUS

**Subject - Geography      Class XII**

## A. FUNDAMENTALS OF HUMAN GEOGRAPHY

<b>Month</b>	<b>Syllabus</b>
<b>April</b>	Unit 1: Ch- 1 Human Geography: Nature and Scope  Unit 2: People  Ch -2 (Population of the world-number, growth and density)  Ch -3 Population change spatial patterns and structure; determinants of population change. Age-sex ratio, rural-urban composition.
<b>May</b>	Ch-4 Human development concept; selected indicators, international comparison. Unit 3: Human Activities Ch - 5 Primary activities concept and changing trends, gathering, pastoral, mining, subsistence agriculture, modern agriculture, people engaged in agriculture and allied activities. Ch - 6 Secondary activities-concept; manufacturing: agro-processing, household, small scale, large-scale, people engaged in secondary activities
<b>June</b>	
<b>July</b>	Ch- 7 Tertiary activities education, health, business, transport and communication; people engaged in services. Quaternary activities-concept; specialised knowledge-based activities.  Ch - 8 Transport, Communication and Trade Land transport-roads, railways-rail network; trans-continental railways.  Water transport inland waterways, major ocean routes and ports.  Airtransport and the shrinking world inter-continental air routes.  Oil and gas pipelines.  Mass communication, satellite communication including computer networking - internet; cable and wireless communication  Ch - 9 International trade-its basis and changing patterns; ports as gateways of rule of WTO in international trade.  Unit 4: Ch - 10 Human Settlements

	Settlement types-rural and urban; problems of human settlements in developing distribution of large cities
<b>August</b>	Part B: India: People and Economy Unit 6: People Ch - 1 Population: distribution, density and growth; composition of population - linguistic, religious, sex, rural-urban and occupational-regional variations in growth of population Ch -2 Migration: Types, causes and Consequences Ch 3 Human Development
<b>September</b>	Unit 7: Ch - 4 Human Settlements Rural settlements - types and distribution, Urban settlements functional classification types, distribution and Revision for half yearly exam
<b>October</b>	Unit 8: Resources and Development Ch -5 Land resources- general land use; agricultural land use; geographical conditions and distribution of major crops (Wheat, Rice, Tea, Coffee, Cotton, Jute, Sugarcane and Rubber); agricultural development and problems Ch -6 Water resources-availability and utilization irrigation, domestic, industrial and other uses; scarcity of water and conservation methods-rain water harvesting and watershed management Ch -7 Mineral and energy resources- distribution of metallic (Iron ore, Copper, Bauxite, Manganese); non-metallic (Mica, Salt) minerals; conventional (Coal, Petroleum, Natural gas and Hydroelectricity) and non-conventional energy sources (solar, wind, biogas) and conservation Ch- 8 Manufacturing Industries
<b>November</b>	Ch -9 Planning in India- target group area planning (case study); idea of sustainable development (case study) Unit 9: Transport, Communication and International Trade Ch -10 Transport and communication-roads, railways, waterways and airways: oil and gas pipelines; Geographical information and communication net works Ch-11 International trade- changing pattern of India's foreign trade; sea ports and their hinterland and airports
<b>December</b>	Unit -10 Ch-12 Geographical Perspective on selected issues and problems.
<b>January</b>	

<b>February</b>	
<b>March</b>	

**GURUKUL SR. SEC. SCHOOL  
CLASS 12th  
MONTHLY SYLLABUS  
SUB:- PHYSICAL EDUCATION  
2022-2023**

MONTH	CHAPTER
APRIL	CH-1 MANAGEMENT OF SPORTS EVENTS ACTIVITY:- MARKING OF KHO-KHO GROUND
MAY	CH-2 WOMEN AND CHILD IN SPORTS ACTIVITY:- PROVIDE THE BASIC KNOWLEDGE OF BASKETBALL
SUMMER BREAK	
JULY	CH-3 LIFE STYLE AND YOGA CH-4 CWSN IN SPORTS CH-5 SPORTS AND NUTRIENTS ACTIVITY:- GIVING THE BASIC KNOWLEDGE OF YOGA

AUGUST	CH-7 PHYSIOLOGY AND INJURIES IN SPORTS ACTIVITY:- MARKING OF VOLLYBALL GORUND AND GIVING THE KNOWLEDGE OF MASS PT STANDING AND SITTING AND START PRACTICAL NOTE BOOK
SEPTEMBER	CH-6 MEASUREMENT AND MASS INDEX IN SPORTS ACTIVITY:- PRACTICAL WILL BE CONDUCT OF SAME TASK BMI AND MEASUREMENT
OCTOBER	CH-8 BIO MECHANICS AND SPORTS ACTIVITY:- MARKING OF KABADDI GOUND AND DUMBLE MASS PT
NOVEMBER	CH-9 PSYCHOLOGY AND SORTS ACTIVITY:- MARKING OF TRACK AND FIELD EVENTS
DECEMBER	CH-10 TRAINING IN SPORTS ACTIVITY:- GIVING THE KNOWLEDGE OF BASKET BALL GROUND
JANUARY	REVISION AND CONDUCT THE CLASS TEST
FEBRUARY	REVISION AND CONDUCT THE CLASS TEST

Theme 1 Bricks, Beads and Bones	April	At the completion of this unit students will be able to: 1 State and deduce the multi-lateral aspects of Harappan civilization in order to understand the first civilization of the world. 2 Develop an ability to use and analyze socioeconomic, political aspects of Harappa Investigate and interpret multiple historical
Theme 2 Kings, Farmers and Towns	April	1 Explain major trends in the 6th century BCE in order to understand the political and economic history of the subcontinent. 2 Analyze inscriptional evidences and the ways in which these have shaped the understanding of political and economic processes.
Theme 3 Kinship, Caste and Class	May	1 Analyze social norms in order to understand the perspectives of society given in the scriptures of ancient India. 2 Examine the varied dimensions explored by historians in order to understand dynamic approach of Mahabharata.
Theme 4 Thinkers, Beliefs and Buildings	May	1 Compare the distinct religious facets in order to understand the religious developments in ancient India 2 Elucidate the rich religious sculpture and infer the stories hidden in it.
Theme 5 Through the Eyes of Travellers	July	1 Identify the accounts of foreign travellers in order to understand the social political and economic life during the tenure of different rulers in the medieval period . 2 Compare and contrast the perspectives of Al Biruni, Ibn Battuta and Bernier towards Indian society.
Theme 6 Bhakti –Sufi Traditions	July	1 Summarize the philosophies of different Bhakti and Sufi saints to understand the religious developments during medieval period. 2 Comprehend the religious movement in order to establish unity, peace, harmony and brotherhood in society
Theme 7 An Imperial Capital: Vijayanagar	August	1 Classify the distinctive architectural contributions of the Vijayanagar empire to comprehend the richness of mingled cultures of deccan India 2 Analyze accounts of foreign traveller's on Vijayanagar in order to interpret political, social and cultural life of the city
Theme 8 – Peasants, Zamindars and the State	August	1 Comprehend the facets of agrarian developments in order to understand the relationship between the state and the agriculture during Mughal period. 2 Compare and contrast the agrarian changes occurred during sixteenth and seventeenth centuries.
Theme 10 Colonialism and The Countryside	September	1 Compare and contrast the revenue systems introduced by the British in order to understand the economic aspects of colonization in India. 2 Analyze the colonial official records & reports in order to understand the divergent interest of British and Indians.

Theme 11 Rebels and the Raj	October	<p>1 Correlate the planning and coordination of the rebels of 1857 to infer its domains and nature.</p> <p>2 Examine the momentum of the revolt in order to understand its spread.</p> <p>3 Analyze how revolt created vision of unity amongst Indians.</p>	
Theme 13 Mahatma Gandhi and the Nationalist Movement	October And Map	<p>1 Correlate the significant elements of the nationalist movement and the nature of ideas, individuals and institutions under the Gandhian leadership.</p> <p>2 Analyze the significant contributions of Gandhiji in order to understand his mass appeal for nationalism.</p> <p>3 Analyze the perceptions and contributions of different communities towards the Gandhian movement.</p>	
Theme 15 Framing the Constitution	December And Project work	<p>1 Highlight the role of Constituent Assembly in order to understand functionaries in framing the constitution of India.</p> <p>2 Analyze how debates and discussions around important issues in the constituent assembly shaped our constitution.</p>	

Gurukul Sr. Sec. School

SPLIT-UPSYLLABUS

SESSION2022-23

CLASS:XII

SUBJECT:COMPUTER SCIENCE (083)

S.NO.	Month	NameofLesson	Tentative No. of Theory Periods Required	Tentative No. of Practical Periods Required
1.	April-May	<b>Unit1:ProgrammingandComputational Thinking (PCT-2)</b> <ul style="list-style-type: none"><li>Revision of the basics of Python from class 11.</li></ul> U.T-1	20	15
2.	July	<ul style="list-style-type: none"><li>Functions: scope, parameter passing, mutable/immutable properties of data objects,pass arrays to functions, return values, functions using libraries: mathematical, and string functions.</li></ul> <b>Unit1:ProgrammingandComputational Thinking (PCT-2)</b> <ul style="list-style-type: none"><li>Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths</li></ul>	25	20
4.	August	<ul style="list-style-type: none"><li>Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appendng data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file</li><li>Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file</li></ul> <b>August U.T-II</b>	25	10
5.	Sept	<ul style="list-style-type: none"><li>CSV file: import csv module, open / close csv file, write into a csv file using csv.writer() and read from a csv file using csv.reader()</li><li>Data Structure: Stack, operations on stack (push &amp; pop), implementation of stack using list.</li></ul> <ul style="list-style-type: none"><li><b>Practical and Project work</b></li></ul>	10	5
6.	October	<b>Unit2:ComputerNetworks (CN)</b> <ul style="list-style-type: none"><li>Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET)</li><li>Data communication terminologies: concept of communication, components of data communication (sender,receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching)</li><li>Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves)</li></ul>	15	----



		<ul style="list-style-type: none"> <li>• Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)</li> <li>• Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree)</li> <li>• Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP</li> <li>• Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting</li> </ul> <p><b>Practical and Project work</b></p>		
7.	Nov	<p><b>Unit III: Database Management</b></p> <ul style="list-style-type: none"> <li>• Database concepts: introduction to database concepts and its need</li> <li>• Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)</li> <li>• Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join</li> </ul> <p><b>Revision and Practice of Sample Question Papers</b></p>	25	20
8.	Dec	<b>1<sup>st</sup> Pre-Board Examination &amp; Revision.</b>		
9.	Jan	<b>2<sup>nd</sup> Pre-Board Examination &amp; Revision.</b>		
10.	Feb	<b>CBSE Practical Examination</b>		
11.	March	<b>CBSE Board Examination</b>		