

ENGLISH SYLLABUS

CLASS XII
2020-2021

TERM I
LITERATURE

FLAMINGO

(PROSE)

1. The Last Lesson
2. Lost Spring
3. Deep Water
4. The Rattrap
5. Indigo
6. Poets and Pancakes

(POETRY)

1. My Mother at Sixty Six
2. An Elementary School Classroom in a Slum
3. Keeping Quiet
4. A Thing of Beauty
5. A Roadside Stand

VISTAS

1. The Third Level
2. The Tiger King
3. Journey to the End of the Earth
4. The Enemy
5. Should Wizard hit Mommy
6. On the Face of it

LANGUAGE

1. Note Making
2. Invitations and Posters
3. Advertisements
4. Revision of Topics done in Class 11 (Report Writing, Speech Writing, Debate Writing)

TERM II
LITERATURE

FLAMINGO

(PROSE)

1. The Interview
2. Going Places

(POETRY)

1. Aunt Jennifer's Tigers

VISTAS

1. Evans Tries an O-Level
2. Memories of Childhood

LANGUAGE

1. General Revisions
2. Solving of Sample Papers
3. ASL Activity

CHEMISTRY THEORY 2020-21

CLASS XII

PRE SELECTION :

SOLUTION

ELECTROCHEMISTRY

COORDINATION

COMPOUNDS

HALOALKANES AND HALOARENES

ALCOHOLS , PHENOLS AND

ETHERS POLYMERS

SURFACE CHEMISTRY

SELECTION :

CHEMICAL

KINETICS

GENERAL PRINCIPLES AND PROCESSES OF ISOLATION OF ELEMENTS

p-BLOCK ELEMENTS

d-and f-BLOCK ELEMENTS

ALDEHYDES , KETONES AND CARBOXYLIC

ACIDS AMINES

BIOMOLECULES

CHEMISTRY IN EVERYDAY LIFE

PLUS PRE SELECTION ALL CHAPTERS

**PROPOSED COURSE STRUCTURE OF CLASS XII
(HISTORY)2020-2021**

PART 1

<u>MONTH</u>	<u>THEMES</u>
APRIL- SEPTEMBER	<p>1. THE STORY OF THE FIRST CITIES: HARAPPAN ARCHAEOLOGY BROAD OVERVIEW: Early urban centres STORY OF DISCOVERY: Harappan civilization EXCERPT: Archaeological report on a major site DISCUSSION: How it has been utilised by archaeologists/historians</p>
	<p>2. POLITICAL AND ECONOMIC HISTORY: HOW INSCRIPTIONS TELL A STORY BROAD OVERVIEW: Political and economic history from the Mauryan to the Gupta period. STORY OF DISCOVERY: Inscriptions and the decipherment of the script. Shifts in the understanding of political and economic history. EXCERPT: Ashokan inscriptions and Gupta period land grant DISCUSSION: Interpretation of inscriptions by historians</p>
	<p>3. SOCIAL HISTORIES: USING THE MAHABHARATA BROAD OVERVIEW: Issues in social history including caste, class, kinship and gender STORY OF DISCOVERY: Transmission and publication of The Mahabharata EXCERPT: From The Mahabharata, illustrating how it has been used by historians. DISCUSSION: Other sources for reconstructing social history.</p> <p>4. A HISTORY OF BUDDHISM: SANCHI STUPA BROAD OVERVIEW:</p>
	<p align="center">A brief review of religious histories of Vedic religion, Jainism, Vaishnavism, Shaivism(Puranic Hinduism) Focus on Buddhism STORY OF DISCOVERY: Sanchi Stupa EXCERPT: Reproduction of sculptures from Sanchi DISCUSSION: Ways in which sculpture has been interpreted by historians, other sources for reconstructing the history of Buddhism.</p>

ABHINAV BHARATI HIGH SCHOOL

PART II

MONTH

APRIL- SEPTEMBER

THEMES

5.MEDIEVAL SOCIETY THROUGH TRAVELLERS' ACCOUNTS

BROAD OVERVIEW:Outline of social and cultural life as they appear in traveller's accounts.

STORY OF DISCOVERY:A discussion of where they travelled,why they travelled they wrote and for whom they wrote.

EXCERPT:From Alberuni, Ibn Batuta, Francois Bernier

DISCUSSION:What these travel accounts can tell us and how they have been interpreted by historians.

6.RELIGIOUS HISTORIES: THE BHAKTI-SUFI TRADITION

BROAD OVERVIEW:

Outline of religious developments during this period

Ideas and practices of the Bhakti- Sufi saints.

STORY OF DISCOVERY:How Bhakti- Sufi compositions have been preserved.

EXCERPT:Extracts from selected Bhakti-Sufi works

DISCUSSION:Ways in which these have been interpreted by historians.

7. NEW ARCHITECTURE: HAMPI

BROAD OVERVIEW:

Outline of new buildings during Vijayanagar period-temples, forts, Irrigation facilities

Relationship between architecture and the political system

STORY OF DISCOVERY:Account of how Hampi was found

EXCERPT:Visuals of buildings at Hampi

DISCUSSION:Ways in which historians have analysed and interpreted these structures.

8 . AGRARIAN RELATIONS: THE AIN-I-AKBARI

BROAD OVERVIEW:Structure of agrarian relations in the 16th and 17th centuries. Patterns of change over the period.

STORY OF DISCOVERY: Account of the compilation and translation of

Ain-i-Akbari

EXCERPT:From the Ain-i-Akbari

DISCUSSION:Ways in which historians have used the text to reconstruct history.

9.THE MUGHAL COURT: RECONSTRUCTING HISTORIES THROUGH CHRONICLES

BROAD OVERVIEW:

Outline of political history 15th-17th centuries

Discussion of the Mughal court and politics

STORY OF DISCOVERY:Account of the production of court chronicles,and their subsequent translation and transmission.

EXCERPT:From the Akbarnama and Padshahnama

DISCUSSION:Ways in which historians have used the texts to reconstruct political histories.

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PART III

<u>MONTH</u>	<u>THEMES</u>
OCTOBER-FEBRUARY	<p>10. COLONIALISM AND RURAL SOCIETY: EVIDENCE FROM OFFICIAL REPORTS</p> <p>BROAD OVERVIEW:</p> <ul style="list-style-type: none"> Life of zamindars, peasants and artisans in the late 18th century East India Company, revenue settlements in various regions of India and land surveys. Changes over the nineteenth century <p>STORY OF OFFICIAL RECORDS: An account of why official investigations into rural societies were undertaken and the types of records and reports produced.</p> <p>EXCERPTS: From Fifth Report, Accounts of Frances Buchanan-Hamilton and Deccan Riots Report.</p>
	<p>DISCUSSION: What the official records tell and do not tell and how they have been used by historians.</p> <p>11. REPRESENTATIONS OF 1857</p> <p>BROAD OVERVIEW:</p> <ul style="list-style-type: none"> The events of 1857-58 Vision of unity How these events were recorded and narrated <p>FOCUS: Lucknow</p> <p>EXCERPTS: Pictures of 1857. Extracts from contemporary accounts</p> <p>DISCUSSION: How the pictures of 1857 shaped British opinion of what had happened.</p>
	<p>12. COLONIALISM AND INDIAN TOWNS: TOWN PLANS AND MUNICIPAL REPORTS</p> <p>BROAD OVERVIEW: History of towns in India, colonization and cities, hill station town planning of Madras, Calcutta and Bombay.</p> <p>EXCERPTS: Photographs and paintings. Plans of cities. Extract from town plan reports.</p>
	<p>DISCUSSION: How the above sources can be used to reconstruct the history of towns. What these sources do not reveal.</p> <p>13. MAHATMA GANDHI THROUGH CONTEMPORARY EYES</p> <p>BROAD OVERVIEW:</p> <ul style="list-style-type: none"> The Nationalist Movement 1918-48 The nature of Gandhian politics and leadership <p>FOCUS: Mahatma Gandhi and the three movements and his last days as “finest hours”</p> <p>EXCERPTS: Reports from English and Indian language newspapers and other contemporary writings.</p>

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DISCUSSION:How newspapers can be a source of history
14. PARTITION THROUGH ORAL SOURCES

BROAD OVERVIEW:

The history of the 1940s

Nationalism, Communalism and Partition

FOCUS:Punjab and Bengal

EXCERPTS:Oral testimonies of those who experienced partition.

DISCUSSION:Ways in which these have analyzed to reconstruct the history event.

15. THE MAKING OF THE CONSTITUTION

BROAD OVERVIEW:

Independence and the new nation state

The making of the Constitution

FOCUS:The Constitutional Assembly debates

EXCERPTS:From the debates

DISCUSSION:What such debates reveal and how they can be analyzed

MAP WORK ON UNITS 1-15

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TERMWISE SYLLABUS BREAKUP

CLASS – XII PHYSICS (2020-21)

TERM	UNIT	CHAPTER
I	I Electrostatics	Chapter-1: Electric Charges and Fields Chapter-2: Electrostatic Potential and Capacitance
	II Current Electricity	Chapter-3: Current Electricity
	III magnetic Effects of Current and Magnetism	Chapter-4: Moving Charges and Magnetism Chapter-5: Magnetism and Matter
	IV Electromagnetic Induction and Alternating Currents	Chapter- 6: Electromagnetic Induction Chapter-7: Alternating current
	V Electromagnetic Waves	Chapter-8: Electromagnetic Waves
II	VI Optics	Chapter-9: Ray Optics and Optical Instruments Chapter-10: Wave Optics (As much as done)
	VII Dual nature of Radiation and Matter	Chapter -11: Dual nature of Radiation and Matter
	VIII Atoms and Nuclei	Chapter-12: Atoms Chapter-13: Nuclei
	IX Electronic Devices	Chapter-14: Semiconductor Electronics, Materials, Devices and Simple Circuit
	+ Term 1	

Syllabus For Class 12

Economics

Session : 2020-21

MACRO AND INDIAN ECONOMIC DEVELOPMENT

FIRST TERM(PRE SELECTION EXAM)

PART A: Introductory Macro Economics

UNIT 1: National Income and Related Aggregates

What is Macroeconomics?

Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods, stocks and flows, gross investment and depreciation.

Circular flow of income (two sector model)and others, Methods of calculating National Income– Value added method, Expenditure method, Income method.

Aggregates related to National Income: GNP, NNP, GDP, NDP at market price and factor cost.

Real and Nominal GDP.

GDP and Welfare.

UNIT :2 : MONEY AND BANKING

**Money– meaning and supply of money,
Commercial Bank – Meaning, function and credit
creation by the Commercial banking system,
Central bank and it's functions.**

Unit :3 : DETERMINATION OF INCOME AND EMPLOYMENT.

**Aggregate demand and it's components,
Propensity to consume and save(Average and
Marginal) short run equilibrium output**

**Investment multiplier and its mechanism, Meaning
of full employment and involuntary
unemployment.**

PART B: INDIAN ECONOMIC DEVELOPMENT

UNIT 6: DEVELOPMENT EXPERIENCE AND ECONOMIC REFORMS

A brief introduction of state of Indian Economy on the eve of independence.

Common goals of Five year plans

Main features, problems and Policies of Agriculture, Industry and foreign trade.

Economic Reforms Since 1991

Features and appraisals of liberalisation, globalisation and privatisation

Concept of demonetization and GST.

UNIT 7 : CURRENT CHALLENGES FACING INDIAN ECONOMY

Poverty : Absolute and Relative

Main programmes for poverty – alleviation; A critical assessment,

Rural development: Key issues– credit and marketing– role of co- operatives, Agricultural diversification, alternative farming- organic farming.

Human Capital formation :How people become resource ,Role of human capital, Growth of Education in India.

Employment : Formal and informal growth, problems and policies.

SELECTION EXAMINATION

FULL SYLLABUS UNDER CBSE SCHEDULE

PART A: INTRODUCTORY MACRO ECONOMICS

UNIT 3 : Problems of Excess and deficit demand ; Measures to correct them.

UNIT 4 : GOVERNMENT BUDGET– Meaning, objectives and components.

**Classification of Revenue and Capital Budget,
Measures of deficit– Revenue, fiscal and primary
deficit.**

UNIT 5 : BALANCE OF PAYMENTS

**Foreign Exchange rate- Meaning of fixed, flexible
and managed floating**

**Determination of exchange rate in a free market,
Balance of payment account – Meaning and
components. BOP deficit– meaning**

PART B : INDIAN ECONOMIC DEVELOPMENT

UNIT 7 : CURRENT CHALLENGES

**INFRASTRUCTURE: Meaning and types: case
studies: Energy and Health; problems and Policies–
A critical Assessment .**

**Sustainable Economic Development:- Meaning,
Effects of economic development on resources and
environment, including global warming.**

UNIT 8 : DEVELOPMENT EXPERIENCE OF INDIA

A comparison with neighbours

India and Pakistan ; India and China

**(Growth, Population, Sectorial development and
Human development Indicator)**

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ENTREPRENEURSHIP XII SYLLABUS FOR 2020-21

PRE-SELECTION

UNIT 1. Entrepreneurial Opportunity

UNIT 2. Enterprise Planning

UNIT 3. Enterprise Marketing

UNIT 4. Enterprise Growth

Strategies Numericals on E.O.Q

and B.E.P **Project:** Market Survey

SELECTIONS

UNIT 5. Business

Arithmetic **UNIT 6.**

Resource Mobilization

Project: Business Plan

(Syllabus for PRE-SELECTION also included)

GEOGRAPHY (CLASS XII) Geography
Syllabus

TER

M 1

Book 1 :- India - People &
Economy

- 1) Population : Distribution, Density & comp.
- 2) Migration : Types, Causes & Consequences
- 3) Human Development
- 4) Human Settlement
- 5) Land Resources & Agriculture
- 6) Water Resources
- 7) Minerals & Energy Resources
- 8) Manufacturing Industries
- 9) Planning & Sustainable Dev in India
- 10) Transport & Communication
- 11) International Trade
- 12) Geographical Perspective On Selected Issues & Problems

Term 2

Book 2: Fundamentals Of Human Geography

1. Human Geography-Nature and Scope
2. The World Population Distribution, Density and Growth
3. Population and Growth
4. Human Development
5. Primary
Activities
6. Secondary Activities
7. Tertiary and Quaternary Activities
8. Transport and Communication
9. International Trade
10. Human Settlement

+

ABHINAV BHARATI HIGH SCHOOL

POLITICAL SCIENCE

CLASS:XII

Pre Selection:

BOOK I

- 1) Chapter 1(Cold War)
- 2) Chapter 2(The End Of Bipolarity)
- 3) Chapter 3(U.S. Hegemony in World Politics)
- 4) Chapter 4(Alternative Centre of Power)
- 5) Chapter 5(Contemporary south Asia)
- 6) Chapter 6(International Organisation)
- 7) Chapter 7(Security in the contemporary world)

BOOK II

- Chapter 1(Challenges of Nation Building)
- Chapter 2(Era of One Party Dominance)
- Chapter 3(Politics of Planned Development)
- Chapter 4(India's External Relations)

SELECTION:

- 1) Chapter 8 & 9(Environment & Natural Resources,Globalisation,From Book 1)
- 2) Chapter 5(Challenges to and restoration of the Congress System)
- 3) Chapter 6(The Crisis of Democratic Order)
- 4) Chapter 7(Rise of Popular Movements)
- 5) Chapter 8(Regional Aspirations)
- 6) Chapter 9((Recent Developments in Indian Politics)

Chapters 1,2,3,4,5,6,7 of BOOK I and Chapters1,2,3,4 of Book IIto be included in the Selection Examination)

PROJECT WORK(as per CBSE guidelines)

Syllabus-2020-21
Subject- Biology
Class XII

Term- I (April to September), Pre- Selection

1. Reproduction in Organisms.
2. Sexual Reproduction in Flowering Plants.
3. Human Reproduction.
4. Reproductive Health.
5. Principles and Inheritance of Variation.
6. Molecular basis of Inheritance.
7. Evolution.
8. Microbes in Human Welfare.
9. Human Health and Diseases.
10. Strategies for enhancements in food production.

Term- II (October to January), Selection

11. Biotechnology- Principles and Practices.
12. Biotechnology and its applications.
13. Organism and Population.
14. Ecosystem.
15. Biodiversity.
16. Environmental Issues.

Note: Second Term (Selection) also includes First Term Syllabus.

XII COMMERCE
ACCOUNTANCY SYLLABUS

PRE-SELECTION	<ol style="list-style-type: none">1. Not for profit organizations2. Fundamentals3. Goodwill4. Change in PSR5. Admission of a partner6. Retirement & death of a partner7. Dissolution of partnership firm8. Company Accounts- Shares9. PROJECT: Comprehensive 1 Specific 1
SELECTION	<ol style="list-style-type: none">10. Company Accounts- Debenture11. Financial statement of a Company12. Tools for Financial statement Analysis13. Accounting ratios14. Cash flow statement15. PROJECT: Specific 2

ABHINAV BHARATI HIGH SCHOOL
SYALLABUS 2020-21

CLASS XII
MATHEMATICS

TERM 1

(April – September)

Matrices

Determinants

Relations and Functions

Inverse Trigonometric Functions

Continuity and Differentiability

Differentiation

Application of Derivatives

Vectors Algebra

Integrals

Application of Integrals

Differential Equation

TERM 2

(November)

Three Dimensional Geometry

Linear Programming

Probability

BUSINESS STUDIES SYLLABUS

PRE-SELECTION

1. Nature & significance of Management

SELECTION	<p>2. Principles of Management 3. Business environment 4. Planning 5. Organizing 6. Staffing 7. Directing 8. Controlling 9. Financial Management</p>
	<p>10. Financial Market 11. Marketing Management 12. Consumer protection PROJECT: MARKETING/STOCK EXCHANGE/PRINCIPLES OF MANAGEMENT/ELEMENTS OF BUSINESS ENVIRONMENT</p>

10. Financial Market

11. Marketing Management

12. Consumer protection

PROJECT: MARKETING/STOCK EXCHANGE/PRINCIPLES OF MANAGEMENT/ELEMENTS OF BUSINESS ENVIRONMENT

1. Computer Science

1. CLASS-XII Code No. 083

1. Unit 1: Programming and Computational Thinking (PCT-2)

- Revision of the basics of Python
- Functions: scope, parameter passing, mutable/immutable properties of data objects, pass arrays to functions, return values, functions using libraries: mathematical, and string functions.
- File handling: open and close a file, read, write, and append to a file, standard input, output, and error streams, relative and absolute paths.
- Using Python libraries: create and import Python libraries
- Recursion: simple algorithms with recursion: factorial, Fibonacci numbers; recursion on arrays: binary search
- Idea of efficiency: performance defined as inversely proportional to the wall clock time, count the number of operations a piece of code is performing, and measure the time taken by a program. Example: take two different programs for the same problem, and understand how the efficient one takes less time.
- Data visualization using Pyplot: line chart, pie chart, and bar chart. Data-structures: lists, stacks, queues.

2. Unit 2: Computer Networks (CN)

- Structure of a network: Types of networks: local area and wide area (web and internet), new technologies such as cloud and IoT, public vs. private cloud, wired and wireless networks; concept of a client and server.
- Network devices such as a NIC, switch, hub, router, and access point.
- Network stack: amplitude and frequency modulation, collision in wireless networks, error checking, and the notion of a MAC address, main idea of routing. IP addresses: (v4 and v6), routing table, router, DNS, and web URLs, TCP: basic idea of retransmission, and rate modulation when there is congestion (analogy to a road network), Protocols: 2G, 3G, 4G, WiFi. What makes a protocol have a higher bandwidth?
- Basic network tools: traceroute, ping, ipconfig, nslookup, whois, speed-test.
- Application layer: HTTP (basic idea), working of email, secure communication: encryption and certificates (HTTPS), network applications: remote desktop, remote login, HTTP, FTP, SCP, SSH, POP/IMAP, SMTP, VoIP, NFC.

3. Unit 3: Data Management (DM-2)

- Write a minimal Django based web application that parses a GET and POST request, and writes the fields to a file - flat file and CSV file.
- Interface Python with an SQL database
- SQL commands: aggregation functions – having, group by, order by.

4. Unit 4: Society, Law and Ethics (SLE-2)

- Intellectual property rights, plagiarism, digital rights management, and licensing (Creative Commons, GPL and Apache), open source, open data, privacy.
- Privacy laws, fraud; cyber-crime- phishing, illegal downloads, child pornography, scams; cyber forensics, IT Act, 2000.

- E-waste management: proper disposal of used electronic gadgets.
- Identity theft, unique ids, and biometrics.
- Gender and disability issues while teaching and using computers.

2. 5. Practical

Some sample lab assignments are as follows:

. Programming in Python:

- Recursively find the factorial of a natural number.
- Read a file line by line and print it.
- Remove all the lines that contain the character `a` in a file and write it to another file.
- Write a Python function $\sin(x, n)$ to calculate the value of $\sin(x)$ using its Taylor series expansion up to n terms. Compare the values of $\sin(x)$ for different values of n with the correct value.
- Write a random number generator that generates random numbers between 1 and 6 (simulates a dice).
- Write a recursive code to find the sum of all elements of a list.
- Write a recursive code to compute the n^{th} Fibonacci number.
- Write a Python program to implement a stack and queue using a list data-structure.
- Write a recursive Python program to test if a string is a palindrome or not.
- Write a Python program to plot the function $y = x^2$ using the pyplot or matplotlib libraries.
- Create a graphical application that accepts user inputs, performs some operation on them, and then writes the output on the screen. For example, write a small calculator. Use the tkinter library.
- Open a webpage using the urllib library.
- Compute EMIs for a loan using the numpy or scipy libraries.
- Take a sample of 10 phishing e-mails and find the most common words.

1. Data Management: SQL and web-server

- Find the min, max, sum, and average of the marks in a student marks table.
- Find the total number of customers from each country in the table (customer ID, customer name, country) using group by.
- Write a SQL query to order the (student ID, marks) table in descending order of the marks.
- Integrate SQL with Python by importing the MySQL module
- Write a Django based web server to parse a user request (POST), and write it to a CSV file.

3. 6. Project

2. Informatics Practices(New)

1. CLASS XII

1. Code No. 065

Unit 1: Data Handling (DH-2)

Python Pandas

- Advanced operations on Data Frames: pivoting, sorting, and aggregation
- Descriptive statistics: min, max, mode, mean, count, sum, median, quartile, var
- Create a histogram, and quantiles.
- Function application: pipe, apply, aggregation (group by), transform, and apply map.
- Reindexing, and altering labels.

Numpy

- 1D array, 2D array
- Arrays: slices, joins, and subsets
- Arithmetic operations on 2D arrays
- Covariance, correlation and linear regression

Plotting with Pyplot

- Plot bar graphs, histograms, frequency polygons, box plots, and scatter plots.

Unit 2: Basic Software Engineering (BSE)

- Introduction to software engineering
- Software Processes: waterfall model, evolutionary model, and component based model
- Delivery models: incremental delivery, spiral delivery
- Process activities: specification, design/implementation, validation, evolution
- Agile methods: pair programming, and Scrum
- Business use-case diagrams
- Practical aspects: Version control system (GIT), and do case studies of software systems and build use-case diagrams

Unit 3: Data Management (DM-2)

- Write a minimal Django based web application that parses a GET and POST request, and writes the fields to a file – flat file and CSV file.
- Interface Python with an SQL database
- SQL commands: aggregation functions, having, group by, order by.

Unit 4: Society, Law and Ethics (SLE-2)

- Intellectual property rights, plagiarism, digital rights management, and licensing (Creative Commons, GPL and Apache), open source, open data, privacy.
- Privacy laws, fraud; cybercrime- phishing, illegal downloads, child pornography, scams; cyber forensics, IT Act, 2000.
- Technology and society: understanding of societal issues and cultural changes induced by technology.
- E-waste management: proper disposal of used electronic gadgets.

- Identity theft, unique ids, and biometrics.
- Gender and disability issues while teaching and using computers.
- Role of new media in society: online campaigns, crowdsourcing, smart mobs
- Issues with the internet: internet as an echo chamber, net neutrality, internet addiction
- Case studies - Arab Spring, WikiLeaks, Bit coin

5. Practical

Data Management: SQL+web-server

- Find the min, max, sum, and average of the marks in a student marks table.
- Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by.
- Write a SQL query to order the (student ID, marks) table in descending order of the marks.
- Integrate SQL with Python by importing MYSQL dB
- Write a Django based web server to parse a user request (POST), and write it to a CSV file.

Data handling using Python libraries

- Use map functions to convert all negative numbers in a Data Frame to the mean of all the numbers.
- Consider a Data Frame, where each row contains the item category, item name, and expenditure.
 - Group the rows by the category, and print the total expenditure per category.
- Given a Series, print all the elements that are above the 75th percentile.
- Given a day's worth of stock market data, aggregate it. Print the highest, lowest, and closing prices of each stock.
- Given sample data, plot a linear regression line.
- Take data from government web sites, aggregate and summarize it. Then plot it using different plotting functions of the PyPlot library.

Basic Software Engineering

- Business use-case diagrams for an airline ticket booking system, train reservation system, stock exchange
- Collaboratively write a program and manage the code with a version control system (GIT)

6. Project

हिंदी (आधार) (कोड सं. 302)

कक्षा - 12वीं (2019-20)

खंड	विषय	अंक
(क)	अपठित अंश	16
	1 अपठित गद्यांश - बोध (गद्यांश पर आधारित बोध, प्रयोग, रचनांतरण, शीर्षक आदि पर लघूत्तरात्मक प्रश्न (1x2) + 5 लघूत्तरात्मक प्रश्न (2x5)	12
	2 अपठित काव्यांश-बोध (काव्यांश पर आधारित चार लघूत्तरात्मक प्रश्न) (1x4)	04
(ख)	कार्यालयी हिंदी और रचनात्मक लेखन (अभिव्यक्ति और माध्यम पुस्तक के आधार पर)	20
	3 दिए गए नए और अप्रत्याशित विषयों में से किसी एक विषय पर रचनात्मक लेखन (विकल्प सहित)	05
	4 कार्यालयी पत्र (विकल्प सहित)	05
	5 विभिन्न माध्यमों के लिए पत्रकारीय लेखन और उसके विविध आयामों पर अति लघूत्तरात्मक प्रश्न (1x4)	04
	6 कविता/कहानी/नाटक की रचना प्रक्रिया पर आधारित प्रश्न (विकल्प सहित) (3x1)	03
	7 समाचार लेखन (उल्टा पिरामिड शैली)/फीचर लेखन/आलेख लेखन (विकल्प सहित) (3x1)	03
(ग)	पाठ्यपुस्तक	44
	(1) आरोह भाग-2	32
	(अ) काव्य भाग	16
	8 दो काव्यांशों में से किसी एक पर अर्थग्रहण से संबंधित तीन प्रश्न (2x3)	06
	9 काव्यांश के सौंदर्यबोध पर दो में से एक काव्यांश पर दो प्रश्न (2x2)	04
	10 कविताओं की विषयवस्तु से संबंधित तीन में से दो लघूत्तरात्मक प्रश्न (3x2)	06
	(ब) गद्य भाग	16
	11 दो गद्यांशों में से किसी एक गद्य पर आधारित अर्थग्रहण के तीन प्रश्न(2x3)	06
	12 पाठों की विषयवस्तु पर आधारित चार बोधात्मक प्रश्न (3x3)(1x1)	10
	(2) वितान भाग-2	12
	12 पाठों की विषयवस्तु पर आधारित एक प्रश्न (4x1) विकल्प सहित	04
	13 विषयवस्तु पर आधारित तीन में से दो निबंधात्मक प्रश्न (4x2)	08
(घ)	(क) श्रवण तथा वाचन - 10	20
	(ख) परियोजना - 10	
	कुल	100

नोट : पाठ्यक्रम के निर्धारित पाठ केवल पढ़ने के लिए -

आरोह (भाग-2)	• बादल राग
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प्रस्तावित पुस्तकें :

1. आरोह, भाग-2, एन.सी.ई.आर.टी. द्वारा प्रकाशित
2. वितान, भाग-2, एन.सी.ई.आर.टी. द्वारा प्रकाशित
3. 'अभिव्यक्ति और माध्यम', एन.सी.ई.आर.टी. द्वारा प्रकाशित

प्रश्नपत्र का प्रश्नानुसार विश्लेषण एवं प्रारूप
हिंदी पाठ्यक्रम- 12वीं आधार (2019-20)

समयावधि : 3 घंटे

अधिकतम अंक : 100

क्र. सं.	प्रश्नों का प्रारूप	दक्षता परीक्षण/ अधिगम परिणाम	1 अंक	2 अंक	3 अंक	4 अंक	5 अंक	कुल
1	अपठित बोध (पठन कौशल)	अवधारणात्मक बोध, अर्थग्रहण, अनुमान लगाना, विश्लेषण करना, शब्द-ज्ञान व भाषिक प्रयोग, सृजनात्मकता, मौलिकता।	6	5	-	-	-	16
2	कार्यालयी हिंदी और रचनात्मक लेखन (लेखन कौशल)	संकेत बिंदुओं का विस्तार, अपने मत की अभिव्यक्ति, सोदाहरण समझना, औचित्य निर्धारण, भाषा में प्रवाहमयता, सटीक शैली, उचित प्रारूप का प्रयोग, अभिव्यक्ति की मौलिकता, सृजनात्मकता एवं तार्किकता	4	-	2	-	2	20
3	पाठ्यपुस्तकें	पत्यास्मरण, विषयवस्तु का बोध एवं व्याख्या, अर्थग्रहण (भावग्रहण), लेखक के मनोभावों को समझना, शब्दों का प्रसंगानुकूल अर्थ समझना, आलोचनात्मक चिंतन, तार्किकता, सराहना, साहित्यिक परंपराओं के परिप्रेक्ष्य में मूल्यांकन, विश्लेषण, सृजनात्मकता, कल्पनाशीलता, कार्य-कारण संबंध स्थापित करना, साम्यता एवं अंतरों की पहचान, अभिव्यक्ति में मौलिकता एवं जीवन-मूल्यों की पहचान।	1	8	5	3	-	44
4	(क)	श्रवण तथा वाचन	-	-	-	-	-	10
	(ख)	परियोजना	-	-	-	-	-	10
		कुल	1x11 =1	2x13 =26	3x7= 21	4x3= 12	5x2= 10	100