MOUNT COLUMBUS SCHOOL DAKSHINPURI, NEW DELHI – 62

Mid Term Syllabus (2024-25)

CLASS X

ENGLISH LANGUAGE & LITERATURE (184)

NAME OF THE BOOK: FIRST FLIGHT (NCERT)
FOOTPRINTS WITHOUT FEET (NCERT)
WORDS AND EXPRESSIONS - II (NCERT)
CBSE ENGLISH LANGUAGE AND LITERATURE – PRACTICE BOOK
(PP PUBLICATIONS)

CHAPTERS

FIRST FLIGHT (PROSE)

- Ch 1 A Letter to God (As per PT I)
- Ch 2- Nelson Mandela...Long Walk to Freedom (As per PT I)
- Ch 3- Two Stories About Flying
- Ch 4 From the diary of Anne Frank
- Ch 5 Glimpses of India
- Ch 6 Mijbil the Otter

FIRST FLIGHT (POETRY)

- Poem 1 Dust of Snow (As per PT I)
- Poem 2 Fire and Ice (As per PT I)
- Poem 3 A Tiger in the Zoo
- Poem 4 How to tell wild animals
- Poem 5 The Ball Poem
- Poem 6 Amanda
- Poem 7 The Trees

FOOTPRINTS WITHOUT FEET

- Ch 1 A Triumph of Surgery(As per PT I)
- Ch 2 The Thief's Story
- Ch 3- The Midnight Visitor
- Ch 4 A Question of trust
- Ch 5 Footprints without feet
- Ch 6 The Making of a Scientist

WRITING SKILLS

1.Formal letter based on a given situation

(As per PT I)

2. Analytical Paragraph

GRAMMAR

- 1. Subject Verb Concord (As per PT I)
- 2. Determiners
- 3. Reported Speech

WORDS AND EXPRESSIONS – II

- 1. Unit 1
- 2. Unit 2
- 3. Unit 3
- 4. Unit 4

PRACTICE BOOK (PP PUBLICATIONS)

Literature

Writing Skills

Grammar

ACTIVITIES

Conduct a Research on the following question. What animals can be exported or imported under law? (Customs seizures show a variety of animals from reptiles, lizards, leopards to pythons, venomous reptile. These are carried in tiny suitcases and smuggled.)

*To be done on A4 size sheets.

Integration with Social Science

- *Our railways have undergone magical transformation since independence from electrification to high speed etc. Find more about Indian Railways and prepare a write up. You can add experiences of rail travel of people and yourself.
- * Collect pictures and information about vintage, royal and luxury trains in India.

(To be done on A4 size sheets)

BLUE PRINT

Maximum Marks=80

Time Allowed – 3 Hrs.

	1 Mark	3 Marks	5 Marks	6 Marks	Total	Weightage (%)
Section A: (20 marks)						25
Unseen Passage	20		-		20	
Section B: (20 marks)						25
Formal Letter	-		1		5	
Analytical Paragraph	-		1		5	
Grammar	10		-		10	
Section C: (40 marks)						50
Reference to the context (First Flight)	5		-		5	
Reference to the context (Footprints without feet)	5		-		5	
Short Answer Question (First Flight)	-	4	-		12	
Short Answer Question (Footprints without feet)	-	2			6	
Long Answer Question (First Flight)	-	-	-	1	6	
Long Answer Question (Footprints without feet)	-	-	-	1	6	
Total	40X1=40	6X3=18	2X5=10	2X6=12	80	100

पाठ्यपुस्तक-स्पर्श, संचयन और हिंदी सीबीएसई प्रश्न बैंक

पाठ का नाम	क्रियाकलाप
पाठ्यपुस्तक- स्पर्श काव्य खंड	
पाठ-1 कबीर- साखी (पी टी-1 के अनुसार) पाठ-2 मीराबाई पाठ-3 मैथिलीशरण गुप्त-मनुष्यता पाठ-4 पर्वत प्रदेश में पावस पाठ-5 वीरेन डंगवाल-तोप	 रंतिदेव, दधीचि या कर्ण के महत्वपूर्ण योगदान पर स्टोरी बोर्ड तैयार करना है। किसी पर्वतीय प्रदेश की यात्रा के लिए सचित्र विवरण का प्रचार करना।
ग्द्य खंड पाठ-1 बड़े भाई साहब (पी टी-1 के अनुसार) पाठ-2 डायरी का एक पन्ना पाठ-3 तताँरा-वामीरो कथा पाठ-4 अब कहाँ दूसरों के दुःख से दुखी होने वाले	 1857 की क्रांति में काम आने वाले औजारों और हथियारों का चित्र बनाकर वॉल गैलरी तैयार करें। कथा के दो मूल पात्र तताँरा और वामीरो की प्रेम कथा कासंवादअभिनय। साक्षात्कार
संचयन पाठ-1 हरिहर काका (पी टी-1 के अनुसार) पाठ-3 टोपी शुक्ला	 दादा-दादी, माता-पिता और मित्रों की विचारधारा का अंतर स्पष्ट कर अभिव्यक्त करें। मित्रता में कोई धर्म, जाति, ऊँच-नीच आदि का कोई स्थान नहीं होता है और इसी अनूठी मिसाल इफ्फ़न और टोपी की मित्रता थी। अपने और अपने मित्र के बारे में
 व्याकरण रचना के आधार पर वाक्य भेद पदबंध (पी टी-1 के अनुसार) समास मुहावरे (पी टी-1 के अनुसार) अपठित गद्यांश 	 बताते हुए अपने पिताजी को पत्र लिखिए। मौखिक और लिखित अभ्यास (कार्यपत्रक के माध्यम से) अभिनय के माध्यम से मुहावरों को पूछना और उनका बोर्ड पर लेखन करना।

लेखन

सूचना लेखन, विज्ञापन लेखन, पत्र और अनुच्छेद लेखन

क्रम संख्या	पाठ्य क्रमानुसार इकाइयां	इकाई पर		अंकवार प्रश्नों की संख्या				कुल प्रश्न	प्रतिशत
		आवंटित अंक	1 अंक	2 अंक	3 अंक	४ अंक	5 अंक		(%)
1	अपठित गद्यांश	14	6	4		-	-	2	17.50
2	व्याकरण	4 4 4	4 4 4				-	4	20
	समासमुहावरे	4	4						
3	पाठ्यपुस्तक काव्य खंड पाठ-1 कबीर- साखी पाठ-2 मीराबाई पाठ –3 मैथिलीशरण गुप्त – मनुष्यता पाठ – 4 पर्वत प्रदेश में पावस	11	5	3			-	2	13.75
	पाठ-5 वीरेन डंगवाल-तोप ग्रह्मखंड पाठ-1 बड़े भाई साहब पाठ-2 डायरी का एक पन्ना पाठ-3. तताँरा-वामीरो कथा पाठ-14 अब कहाँ दूसरों के दुःख से दुखी होने वाले संचयन पाठ-1 हरिहर काका पाठ-3 टोपी शुक्ला	11	5	3				2	13.75
4	<u>लेखन</u>	6			2			1	7.5
7	सूचना लेखन विज्ञापन लेखन पत्र लेखन अनुच्छेद लेखन लघुकथा और ईमेल	4 3 5 5 5	-		1	1	3	5	27.50
	योग	80	32X1=32	10X2=20	3X3=9	1x4=4	3x5=15	16	100

Mathematics (041, 241)

NAME OF THE BOOK: Mathematics (NCERT)

Mathematics (RS Aggarwal)

Name of the chapter	Lab Activity
Chapter 1: Real numbers (As per PT-1)	-
Chapter 2: Polynomials (As per PT-1)	-
Chapter 3: Pair of Linear Equations in Two Variables	(a)To solve the different types of systems of linear equations on graph paper.(b) To obtain the condition of consistency of system of equations.
Chapter 4: Quadratic Equations	-
Chapter 6: Triangles	To prove that the line drawn parallel to one side of a triangle intersecting the other two sides divides them in the same ratio. To verify that "the square of the hypotenuse is equal to the sum of squares of the other two sides in a right triangle."
Chapter 7: Coordinate Geometry (As per PT-1)	-
Chapter 8: Introduction to Trigonometry	To verify the Trigonometric identity $:\sin^2\emptyset + \cos^2\emptyset = 1$
Chapter 9: Some Applications of Trigonometry	-
Chapter 12: Surface Areas and Volumes	To verify that the surface area of a sphere is four times the area of a circle of the same radius.
Chapter 14: Probability	To find the probability of the sum of numbers on a pair of dice through an activity.

BLUEPRINT

TIME: 3 Hrs. MAX. MARKS: 80

S.No.	CHAPTERS	Objective Questions (1Mark)	Very Short Questions (2 Marks)	Short Questions (3 Marks)	Case Based Questions (4 Marks)	Long Questions (5 Marks)	Total Marks	Percentage (%) Weightage
1.	Chapter 1: Real numbers	2	1	1	1	-	7	8.75
2.	Chapter 2: Polynomials	2	-	1	1	-	5	6.25
3.	Chapter 3: Pair of Linear Equations in Two Variables	2	1	1	-	-	7	8.75
4.	Chapter 4: Quadratic Equations	2	1	1	-	-	7	8.75
5.	Chapter 6: Triangles	1	1	-	-	1	8	10
6.	Chapter 7: Coordinate Geometry	2	-	2	1	-	12	15
7.	Chapter 8: Introduction to Trigonometry	2	1	-	-	1	9	11.25
8.	Chapter 9: Some Applications of Trigonometry	1	-	-	-	1	6	7.50
9.	Chapter 12: Surface Areas and Volumes	2	-	-	1	1	11	13.75
10.	Chapter 14: Probability	4	-	-	1	-	8	10
Total		1x20=20	2x5=10	3x6=18	4x3=12	5x4=20	80	100

SCIENCE (086)

NAME OF THE BOOK: NCERT SCIENCE

V.K SCIENCE PHYSICS V.K SCIENCE CHEMISTRY V.K SCIENCE BIOLOGY

SUBJECT	CHAPTERS	ACTIVITY / EXPERIMENT
PHYSICS	Ch-9, Light (As per PT-1)	-
	Ch-10, Human eye and colourful world	 ACTIVITY Create a 3D model of the human eye using clay or paper mache to understand its structure. Act out the process of light passing through the eye and forming an image on the retina. EXPERIMENT Trace the path of a light ray passing through a rectangular glass slab for different angles of incidence.
	Ch-12, Magnetic effect	• Draw or paint a diagram illustrating the magnetic field lines around a magnet.
CHEMISTRY	Ch-1, Chemical Reactions (As per PT-1)	-
	Ch-2, Acids, Bases and Salts	 ACTIVITY Neutralise me/ look for my salt game- Prepare 30 cards having the names of different 10 salts, 10 acids and 10 base (group activity). Record the pH of various beverages that we consume in our daily life. Also check their implication of teeth/bones. EXPERIMENT Find the pH of the samples by using pH paper. To study the properties of acids and bases
	Ch-3, Metals and Non-Metals	ACTIVITY Design board games or card games incorporating metal and nonmetal properties. EXPERIMENT To observe the action of Iron, Aluminium, Zinc and Copper on the following aqueous solution of Zinc Sulphate, Aluminium Sulphate, Copper Sulphate and Ferrous Sulphate and arrange these metals according to their reactivity.
BIOLOGY	Ch-5, Life Processes (As per PT-1)	-
	Ch-6, Control and coordination	 ACTIVITY Write a story about the nervous system and its role in control and coordination. Create a flow chart illustrating the steps involved in the reflex arc.

Ch-13, Our Environment	ACTIVITY Write a letter to the god stating the present condition of the earth/gratitude letter to god.
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BLUEPRINT

Time - 3 Hours

Maximum Marks - 80

S.No	CHAPTERS	Objective Questions (1Mark)	Very Short Questions (2 Marks)	Short Questions (3 Marks)	Source Based Questions (4 Marks)	Long Questions (5 Marks)	Total Marks	Percentage (%) Weightage
1.	Ch-1, Chemical Reactions	3	-	1	-	-	6	6.25
2.	Ch-2, Acids, Bases and Salts	3	1	-	-	1	10	12.5
3.	Ch-3, Metals and Non-Metals	3	-	1	1	-	10	11.25
4.	Ch-5, Life Processes	2	1	1	1	-	11	13.75
5.	Ch-6, Control and coordination	3	2	1	-	-	10	12.5
6.	Ch-13 , Our Environment	2	-	1	-	-	5	6.25
7.	Ch-9, Light	2	-	1	1		9	11.25
8.	Ch-10, Human eye and colourful world	1	2	-	-	1	10	13.75
9.	Ch-12, Magnetic effect	1	-	1	-	1	9	12.5
Total		1X20=20	2X6=12	3X7=21	4X3=12	5X3=15	80	100

SOCIAL SCIENCE (087)

NAME OF THE BOOK: India and the Contemporary World-II
Contemporary India-II
Democratic Politics-II
Understanding Economic Development

	Workbook
CHAPTERS	ACTIVITIES
HISTORY Ch-1. The Rise of Nationalism in Europe (As per PT-1)	-
Ch-2. Nationalism in India	 Map Work (1918 – 1930) for Locating and Labelling /Identification- 1. Indian National Congress Sessions: Calcutta (Sep. 1920), Nagpur (Dec. 1920), Madras (1927) 2. Three Satyagraha Movements: Champaran (Bihar) - Movement of Indigo Planters Kheda (Gujarat) - Peasant Satyagrah Ahmedabad (Gujarat) - Cotton Mill Workers Satyagraha 3. Jallianwala Bagh Incident - Amritsar (Punjab) 4. Chauri Chaura (U.P.) - Calling off the Non-Cooperation Movement 5. Dandi (Gujarat) - Civil Disobedience Movement
Ch-3. The Making of Global World	Group Discussion on World War -II and Global Economy
GEOGRAPHY Ch-1. Resources and Development	Map Work: Identify major types of soils.
Ch-2. Forest and Wildlife Resources	Mind Map
Ch-3. Water Resources	Map Work-Dams: Salal, Bhakra Nangal, Tehri, Rana Pratap Sagar, Sardar Sarovar, Hirakud, Nagarjuna Sagar, Tungabhadra
Ch-4. Agriculture	Map Work-Major areas of Rice and Wheat Largest / Major producer States of Sugarcane, Tea, Coffee, Rubber, Cotton andJute
Ch-7. Lifeline of Indian Economy (only Map Pointing)	Map Work-Major Ports: Kandla, Mumbai, Marmagao, New Mangalore, Kochi, Tuticorin, Chennai, Vishakhapatnam, Paradip, Haldia International Airports: Amritsar (Raja Sansi- Sri Guru Ram Das jee), Delhi (Indira Gandhi International), Mumbai (Chhatrapati Shivaji), Chennai (Meenam Bakkam), Kolkata (Netaji Subhash Chandra Bose), Hyderabad (Rajiv Gandhi)
ECONOMICS Ch-1. Development Ch-2. Sectors of the Indian Economy	- Concept building- Interdependency three sectors
Ch-3. Money and Credit	Visit to Bank (To be done under the supervision of Parent)
POLITICAL SCIENCE Ch-1. Power Sharing (As per PT-1)	-
Ch-2. Federalism (As per PT-1) Ch-3. Gender, Religion and Caste	- Wall Journal- Story of India

<u>Note:</u> Project work will be assessed in Chapter-3: The Making of Global World and Chapter-7: Lifeline of Indian Economy

BLUEPRINT

TIME: 3 Hrs. MAX. MARKS: 80

S.No.	Name of the Chapters	MCQ	Very Short Type Question (2 Marks)		Long Question (5 Marks)	Source/ Case Based Question (4 Marks)	Map Skill (1 Mark)	Total Marks	Percentage (%) Weightage
1	Ch-1. The Rise of Nationalism in Europe	3	1	-	1	-	-	10	12.5
2	Ch-2. Nationalism in India	1	-	1	-	1	2	10	12.5
3	Ch-1. Resources and Development	1	1	-	-	-	2	05	6.25
4	Ch-2. Forest and Wildlife Resources	1	-	1	-	-	1	05	6.25
5	Ch-3. Water Resources	1	-	-	-	1	-	05	6.25
6	Ch-4. Agriculture	-	-	-	1	-	-	05	6.25
7	Ch-1. Development	1	-	-	1	-	-	06	7.5
8	Ch-2. Sectors of the Indian Economy	2	1	-	-	1	-	08	10
9	Ch-3. Money and Credit	-	-	2	-	-	-	06	7.5
10	Ch-1. Power Sharing	4	1	-	-	-	-	06	7.5
11	Ch-2. Federalism	3	-	1	-	-	-	06	7.5
12	Ch-3. Gender, Religion and Caste	3	-	-	1	-	-	08	10
	Total	1x20=20	2x4=08	3x5=15	5x4=20	4x3=12	1x5=05	80	100

ARTIFICIAL INTELLIGENCE (417) Book Name: - Artificial Intelligence

Dant A	Activity/Practical
Part-A	Activity/Fractical
Employability skills	
Unit 1: Communication Skills-II	-
(As per PT-1)	
Unit 2 :Self-management Skills-II	-
(As per PT-1) Unit 3: Information and	Divide the class into two different energies and calculations to
Communication Technology Skills-II	Divide the class into two different groups and ask them to discuss the following topics:
Communication Technology Skins-II	a) Types of operating systems
	b) Operating system and its functions.
Unit 4: Entrepreneurial Skill-II	 Introspect and assess yourself as a future entrepreneur.
Ont 4. Entrepreneural Skin-ii	Think about the entrepreneurial qualities you have read
	about and analyses your strengths and weaknesses. Write
	a report on your self-analysis.
	Read the success stories of two entrepreneurs to know
	how they acquired corporate experience and started their
	ventures. Compile your findings as a project report.
Part-B	
Subject Specific Skills	
Unit 1 :Introduction to AI	-
(As per PT-1)	
Unit 2: AI Project Cycle	You are working on a project to predict the price of a
	house based on features such as square footage, number
	of rooms, and location. The dataset includes numerical
	values for these features and historical sales prices of
	houses. You have been asked to develop an AI system for
II : 2 A I D II	this scenario. Which AI model will you use?
Unit 3: Advance Python	Write a program to calculate the surface area and volume
	of a cuboid.
	Write a program to ask for height in centimeters and convert it into feet and inches.
	Write a program to check whether the given number is
	even and odd.
	Write a program to check whether the applicant is eligible
	to vote in the elections or not.
	Write a program to delete an element from a list.
Unit 4: Data Science	➤ Imagine you are building an AI project based on the data
	science domain. What are the different sources of data
	and the points you will consider while collecting data
	from different sources?
Unit 5: Computer Vision	Consider that you are working on a self-driving car
	project. Describe the Computer Vision techniques and
	algorithms that the car's cameras and sensors might use
	to navigate and make decisions in real-time.

BLUE PRINT

Maximum Marks:- 50

Time Allowed:- 2 hours

PART	A - EMPLOYABILITY S	SKILLS (10 MAI	RKS):			
Unit	NAME OF THE UNIT	OBJECTIVE	SHORT	TOTAL QUESTION	NS	
No		TYPE	ANSWER TYPE			
		QUESTIONS	QUESTIONS			
		1 MARK	2 MARK EACH			
		EACH				
1	Communication Skills - II	1		1		
2	Self-Management Skills - II	1	1	2		
3	Unit 3: Information and Communication Technology Skills-II	1	1	2		
4	Unit 4: Entrepreneurial Skills – II	1	1	2		
PART	B - SUBJECT SPECIFIC	C SKILLS (40 MA	ARKS):			
Unit	NAME OF THE UNIT	OBJECTIVE	SHORT	LONG ANS.	TOTAL	
No		TYPE	ANSWER TYPE	TYPE	QUESTIONS	
		QUESTIONS	QUESTIONS	QUESTIONS		
		1 MARK	2 MARK EACH	4 MARK EACH		
		EACH				
1	Unit 1 :Introduction to AI	6	1	1	8	
2	Unit 2: AI Project Cycle	6	1	1	8	
3	Unit 3: Advance Python	To be assessed in Practical only				
4	Unit 4: Data Science	6	1	-	7	
5	Unit 5: Computer Vision	2	1	1	4	

INFORMATION TECHNOLOGY (402)

Book Name: Basics of Information Technology

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Unit	Practical		
Communication Skills – II (As per PT-1)	-		
Self-Management Skills – II (As per PT-1)	-		
Unit 3 Information and Communication Technology skills-II	 Identification of task bar, icons, menu, etc. Demonstration and practicing of creating, renaming and deleting files and folders, saving files in folders and subfolders, restoring files and folders from recycle bin Demonstration of the procedures to be followed for cleaning, care and maintenance of hardware and software 		
Unit 4 Entrepreneurial Skills-II	Collecting success stories of first generation and local entrepreneurs Listing the entrepreneurial qualities – analysis of strength and weaknesses Activity Collect information and related data for a business Make a plan in team for setting up a business		
Part B Digital Documentation (Advance)	-		
(As per PT-1)			
Unit 2 Electronic Spreadsheet	Activity		
(Advanced)	 1 Budgeting and Financial Analysis - Create a budget spreadsheet to track income and expenses. - Use formulas and functions (e.g., SUM, AVERAGE, IF) to calculate totals and percentages. - Analyze data to make financial decisions. 2. Data Visualization - Create charts and graphs to represent data (e.g., sales, temperature, grades). - Use different types of charts (e.g., bar, pie, line) to display data effectively. - Customize chart elements (e.g., titles, labels, colors). 		
Unit 3 Database Management System	Practical Identify the data and information 2. Identify the field, record, table in the database 3. Prepare the sample table with some standard fields. 4 Create and edit tables using wizard and SQL commands Activity 1. Create a database using a DBMS like MySQL or Access Define tables, fields, and data types Insert sample data into the tables. 2. Design a database for a small business or personal project Identify entities, attributes, and relationships Create an Entity-Relationship diagram (ERD). 3. Write SQL queries to: - Retrieve specific data using WHERE clauses Sort and filter data using ORDER BY and GROUP BY clauses Perform calculations using aggregate functions (SUM, AVG, MAX, MIN).		

PAR	Γ A - EMPLOYABILIT	TY SKILLS (10 MA	ARKS):		
Unit	NAME OF THE	OBJECTIVE	SHORT ANSWER	TOTAL QUESTIONS	
No	UNIT	TYPE	TYPE QUESTIONS		
		QUESTIONS			
		1 MARK EACH	2 MARK EACH		
1	Communication	1		1	
	Skills - II				
2	Self-Management	1	1	2	
	Skills - II				
3	ICT Skills - II	1	1	2	
4	Entrepreneurial Skills	1	1	2	
	- II				
PART	ΓB - SUBJECT SPECI	FIC SKILLS (40 N	MARKS):		
Unit	NAME OF THE	OBJECTIVE	SHORT ANSWER	LONG ANS.	TOTAL
No	UNIT	TYPE	TYPE QUESTIONS	TYPE	QUESTIONS
		QUESTIONS	2 MARK EACH	QUESTIONS	
		1 MARK EACH		4 MARK	
				EACH	
1	Digital	6	1	1	8
	Documentation				
	(Advance)				
2	Electronic	6	1	1	8
	Spreadsheet				
	(Advance)				
3	Database	8	2	1	11
	Management System				

<u>ART</u>

Book- Canvas -A book of fine ARTs

<u>UNIT-1 STILL LIFE:</u> Kettle, Apples and Wine (Colour Pencil- Pg.13), Flowers (Water Colour-Pg.14), Fruits (Colour Pencil- Pg.16), Vegetables (Colour Pencil- Pg.18)

<u>UNIT-2 LANDSCAPE:</u> Landscape (Poster Colours- Pg.27), Landscape (Acrylic Colours- Pg.28)

WORK EDUCATION

- Jute Bag Painting
- 2. Papier Mache
- 3. Block Printing-Table Cloth