



**Bal Bharati**  
**PUBLIC SCHOOL**  
M A N E S A R

**SYLLABUS( 2022-2023)**

**CLASS X**

**SUBJECT- ENGLISH**

**GENERAL OBJECTIVES**

1. TO ENABLE THE STUDENTS COMPREHEND THE SPOKEN FORM
2. TO DEVELOP STUDENTS' ABILITY TO USE ENGLISH IN DAY-TO-DAY LIFE AND REAL-LIFE SITUATION.
3. TO UNDERSTAND THE WRITTEN TEXT AND ABLE TO USE SKIMMING, SCANNING SKILLS.
4. TO TEACH GOOD ENGLISH, BOTH SPOKEN & WRITTEN AND TO ENCOURAGE CURIOSITY, QUESTIONING, REASONING & UNDERSTANDING AMONG THE STUDENTS.
5. TO MAKE STUDENT FLUENT & CONFIDENT WHILE CONVERSING IN ENGLISH.

**PERIODIC TEST -1 ( JULY 2022)**

**READING-**

UNSEEN PASSAGE

DISCURSIVE PASSAGE

**GRAMMAR**

TENSES

MODALS

**WRITING**

LETTER WRITING

**LITERATURE**

## **FIRST FLIGHT**

1. A LETTER TO GOD
2. NELSON MANDELA - LONG WALK TO FREEDOM

## **POEMS**

1. DUST OF SNOW
2. FIRE AND ICE
3. A TIGER IN THE ZOO

## **FOOTPRINTS WITHOUT FEET**

1. A TRIUMPH OF SURGERY
2. THE THIEF'S STORY
3. THE MIDNIGHT VISITOR

## **HALF-YEARLY EXAMINATION (OCTOBER 2022)**

### **READING**

#### **DISCURSIVE PASSAGE**

### **WRITING**

#### **LETTER WRITING**

#### **ANALYTICAL PARAGRAPH**

## **LITERATURE**

1. GLIMPSES OF INDIA
2. MIJBIL THE OTTER
3. MADAM RIDES THE BUS
4. TWO STORIES ABOUT FLYING
5. FROM THE DIARY OF ANNE FRANK

## **POEMS**

1. THE BALL POEM
2. AMANDA!
3. THE TREES
4. HOW TO TELL WILD ANIMALS

### **FOOTPRINTS WITHOUT FEET**

1. A QUESTION OF TRUST
- 2.. FOOTPRINTS WITHOUT FEET
3. THE MAKING OF A SCIENTIST
4. THE NECKLACE

### **GRAMMAR**

INTEGRATED GRAMMAR

REPORTED SPEECH

### **PERIODIC TEST - II (NOVEMBER (2022))**

### **FIRST FLIGHT PROSE**

1. THE SERMON AT BENARES
2. THE PROPOSAL (PLAY)

### **POEMS**

1. FOG
2. THE TALE OF CUSTARD THE DRAGON
3. FOR ANNE GREGORY

### **FOOTPRINTS WITHOUT FEET**

1. BHOLI
2. THE BOOK THAT SAVED THE EARTH

### **WRITING**

LETTER WRITING

ANALYTICAL PARAGRAPH

GRAMMAR

DETERMINERS

INTEGRATED PARAGRAPH

**PRE-BOARD EXAMINATION- COMPLETE SYLLABUS (DECEMBER 2022)**

**BOARD EXAMINATION- COMPLETE SYLLABUS(JANUARY 2023)**

विषय-हिंदी

उद्देश्य : 1 . भाषा के चार प्रमुख कौशलों – श्रवण, वाचन, पठन एवं लेखन क्षमता का विकास ।

2. उच्चस्तरीय विचार, मनन क्षमता का विकास ।

3. व्याकरण का शुद्ध प्रयोग ।

4. वास्तविक जीवन परिस्थितियों में भाषा का उचित प्रयोग ।

5. अध्ययन एवं गतिविधियों के माध्यम से जीवन – मूल्यों तथा पारिवारिक एवं राष्ट्रीय चेतना का विकास ।

पाठ्य –पुस्तक 1. स्पर्श

2. संचयन

3. हिंदी व्याकरण

प्रथम सत्र (अप्रैल 2022 से अक्टूबर 2022)

सामयिक परीक्षा प्रथम

पाठ्य पुस्तक-

- कबीर की साखी
- मीरा के पद
- बड़े भाई साहब

व्याकरण-

- पदबंध

- रचना के आधार पर वाक्य रूपांतरण
- मुहावरे
- पत्र लेखन ( औपचारिक )
- सूचना लेखन
- विज्ञापन लेखन

अर्धवार्षिक परीक्षा-

पाठ्य पुस्तक-

- कबीर की साखी
- मीरा के पद
- मनुष्यता
- बड़े भाई साहब
- डायरी का एक पन्ना
- ततारा-वामीरो कथा
- हरिहर काका

व्याकरण-

- पदबंध
- रचना के आधार पर वाक्य रूपांतरण
- समास
- मुहावरे
- अनुच्छेद लेखन
- पत्र लेखन ( औपचारिक )
- सूचना लेखन
- विज्ञापन लेखन
- लघुकथा लेखन
- ई-मेल लेखन

द्वितीय सत्र ( नवंबर 2022 से मार्च 2023 तक )

पाठ्य पुस्तक-

- पर्वत प्रदेश में पावस
- तोप
- कर चले हम फ़िदा
- आत्मत्राण
- तीसरी कसम के शिल्पकार शैलेंद्र
- अब कहाँ दूसरों के दुःख से दुखी होने वाले
- पतझर में टूटी पत्तियाँ
- कारतूस
- सपनों के-से दिन

- टोपी शुक्ला

व्याकरण-

- पदबंध
- रचना के आधार पर वाक्य रूपांतरण
- समास
- मुहावरे
- अनुच्छेद लेखन
- पत्र लेखन ( औपचारिक )
- सूचना लेखन
- विज्ञापन लेखन
- लघुकथा लेखन
- ई-मेल लेखन

सामयिक परीक्षा द्वितीय ( दिसंबर-2022)

- संपूर्ण पाठ्यक्रम

प्राक बोर्ड परीक्षा-(जनवरी 2023)

- संपूर्ण पाठ्यक्रम

## **SUBJECT- MATHEMATICS**

### **GENERAL OBJECTIVES**

1. TO ENABLE THE STUDENTS TO UNDERSTAND THE CONCEPTUAL VALUE OF THE TOPIC.
2. TO GIVE DRILLING TO PROVIDE CONFIDENCE, SPEED AND ACCURACY IN UNDERSTANDING MATHEMATICAL FUNDAMENTALS.
3. TO DEVELOP AND INTEGRATE MATHEMATICAL SKILLS IN DAY TO DAY PROBLEMS AND USE THEM TO UNDERSTAND AND SOLVE HOTS (HIGHER ORDER THINKING SKILLS).

TEXT BOOK : NCERT MATHEMATICS.

TERM- I (APRIL 2022- OCT 2022)

CHAPTER- 2 POLYNOMIALS

**PERIODIC TEST-1 ( JULY 2022)**

CHAPTER-1 REAL NUMBERS

CHAPTER- 4 QUADRATIC EQUATIONS

**HALF YEARLY ( OCTOBER 2022)**

CHAPTER- 1 REAL NUMBERS

CHAPTER- 2 POLYNOMIALS

CHAPTER- 3 PAIR OF LINEAR EQUATIONS IN TWO  
VARIABLES

CHAPTER- 4 QUADRATIC  
EQUATIONS

CHAPTER - 5 ARITHMETIC PROGRESSIONS

CHAPTER- 6 TRIANGLES

CHAPTER- 14 STATISTICS

**TERM II**

**(NOV 2022-MARCH 2023)**

**NOVEMBER (2022)**

CHAPTER – 7 COORDINATE GEOMETRY

CHAPTER - 8 INTRODUCTION TO TRIGONOMETRY

CHAPTER - 9 SOME APPLICATIONS OF TRIGONOMETRY

CHAPTER- 10 CIRCLES

CHAPTER-12 AREA RELATED TO  
CIRCLES

CHAPTER-13 SURFACE AREAS AND VOLUMES

CHAPTER-15 PROBABILITY

**PERIODIC TEST -2 ( DECEMBER 2022)**

**PREBOARD EXAMINATION – ( JAN 2023)**

**COMPLETE SYLLABUS**

**SUBJECT- GENERAL SCIENCE**

**FIRST TERM**

**(APRIL 2022-OCT  
2022)**

**GENERAL OBJECTIVES**

1. TO DEVELOP SCIENTIFIC ATTITUDES AND VALUES
2. TO ACQUIRE SKILL IN EMPLOYING THE SCIENTIFIC METHOD

3. TO GAIN FUNCTIONAL KNOWLEDGE AND INFORMATION
4. TO AROUSE AND SUSTAIN INTEREST IN FUTURE SCIENCE BASED PURSUITS
5. TO DEVELOP DESIRABLE SOCIAL ATTITUDES
6. TO DEVELOP SCIENTIFIC AWARENESS AMONG THE STUDENTS
7. TO PROMOTE SPIRIT OF ENQUIRY, EXPERIMENTATION AND OBSERVATION

### **PERIODIC TEST-1(JULY)**

**PHYSICS:** REFLECTION AND REFRACTION OF LIGHT

**CHEMISTRY:** CHEMICAL REACTIONS AND EQUATIONS

**BIOLOGY:** LIFE PROCESSES-NUTRITION,RESPIRATION,TRANSPORTATION IN HUMAN BEINGS

### **LIST OF PRACTICALS**

**PHYSICS:**

1. TO DETERMINE THE FOCAL LENGTH OF:

I. CONCAVE LENS,

II. CONVEX LENS, BY OBTAINING THE IMAGE OF A DISTANT OBJECT.

2. TO TRACE THE PATH OF A RAY OF LIGHT PASSING THROUGH A RECTANGULAR GLASS SLAB FOR DIFFERENT ANGLES OF INCIDENCE. MEASURE THE ANGLE OF INCIDENCE, ANGLE OF REFRACTION, ANGLE OF EMERGENCE AND INTERPRET THE RESULT.
3. TO TRACE THE PATH OF THE RAYS OF LIGHT THROUGH A GLASS PRISM.
4. TO FIND THE IMAGE DISTANCE FOR VARYING OBJECT DISTANCES IN CASE OF A CONVEX LENS AND DRAW CORRESPONDING RAY DIAGRAMS TO SHOW THE NATURE OF IMAGE FORMED

**CHEMISTRY:**

1. TO FIND THE PH OF THE FOLLOWING SAMPLES BY USING PH PAPER/UNIVERSAL INDICATOR:

A) DILUTE HYDROCHLORIC ACID

B) DILUTE NaOH SOLUTION

C) DILUTE ETHANOIC ACID SOLUTION

D) LEMON JUICE

E) WATER

F) DILUTE SODIUM BICARBONATE SOLUTION

2. TO STUDY THE PROPERTIES OF ACIDS AND BASES (HCL & NaOH) BY THEIR REACTION WITH:

A) LITMUS SOLUTION (BLUE/RED)

B) ZINC METAL

C) SOLID SODIUM CARBONATE

3. TO PERFORM AND OBSERVE THE FOLLOWING REACTIONS AND CLASSIFY THEM INTO:



- A. COMBINATION REACTION
- B. DECOMPOSITION REACTION
- C. DISPLACEMENT REACTION
- D. DOUBLE DISPLACEMENT REACTION

- 1) ACTION OF WATER ON QUICK LIME
- 2) ACTION OF HEAT ON FERROUS SULPHATE CRYSTALS
- 3) IRON NAILS KEPT IN COPPER SULPHATE SOLUTION
- 4) REACTION BETWEEN SODIUM SULPHATE AND BARIUM CHLORIDE SOLUTIONS

I) TO OBSERVE THE ACTION OF ZN, FE, CU AND AL METALS ON THE FOLLOWING SALT SOLUTIONS:

- A.  $\text{ZnSO}_4$  (AQ)
- B.  $\text{FeSO}_4$  (AQ)
- C.  $\text{CuSO}_4$  (AQ)
- D.  $\text{Al}_2(\text{SO}_4)_3$  (AQ)

II) ARRANGE Zn, Fe, Cu AND Al (METALS) IN THE DECREASING ORDER OF REACTIVITY BASED ON THE ABOVE RESULT.

**BIOLOGY:**

- 1. TO PREPARE A TEMPORARY MOUNT OF A LEAF PEEL TO SHOW STOMATA.
- 2. TO SHOW EXPERIMENTALLY THAT CARBON DIOXIDE IS GIVEN OUT DURING RESPIRATION.

**HALF YEARLY EXAMINATIONS (OCTOBER)**

**PHYSICS:** 1) REFLECTION AND REFRACTION OF LIGHT

2) HUMAN EYE & COLOURFUL WORLD

**CHEMISTRY:** 1) CHEMICAL REACTIONS AND EQUATIONS

2) ACIDS, BASES AND SALTS

**BIOLOGY:** 1) LIFE PROCESSES

2) CONTROL AND COORDINATION

3) OUR ENVIRONMENT

4) HOW DO ORGANISMS REPRODUCE-TILL UPTO ASEXUAL REPRODUCTION ONLY.

**SECOND TERM(NOVEMBER 2022-MARCH**

**2023)**

**PERIODIC TEST – 2 ( DECEMBER 2022**

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**PHYSICS:** 1) ELECTRICITY

2) MAGNETIC EFFECT OF ELECTRIC CURRENT

**CHEMISTRY:** 1) METALS AND NON- METALS

2) CARBON AND ITS COMPOUNDS

**BIOLOGY:**

1) HOW DO ORGANISMS REPRODUCE?

2) HEREDITY

**PREBOARD EXAMINATION ( JAN 2023)**

**COMPLETE SYLLABUS**

**LIST \_\_\_\_\_ OF**  
**PRACTICALS:**  
**PHYSICS:**

5. TO STUDY THE DEPENDENCE OF POTENTIAL DIFFERENCE (V) ACROSS A RESISTOR ON THE CURRENT  
I. PASSING THROUGH IT AND DETERMINE ITS RESISTANCE. ALSO PLOT A GRAPH BETWEEN V AND I.

**CHEMISTRY:**

1. TO STUDY THE FOLLOWING PROPERTIES OF ACETIC ACID (ETHANOIC ACID):
  - I) ODOUR
  - II) SOLUBILITY IN WATER
  - III) EFFECT ON LITMUS
  - IV) REACTION WITH SODIUM BICARBONATE
2. TO STUDY THE COMPARATIVE CLEANING CAPACITY OF A SAMPLE OF SOAP IN SOFT AND HARD WATER.

**BIOLOGY:**

1. TO STUDY
  - (A) BINARY FISSION IN *AMOEB*A, AND
  - (B) BUDDING IN YEAST WITH THE HELP OF PREPARED SLIDES
2. TO IDENTIFY THE DIFFERENT PARTS OF AN EMBRYO OF A DICOT SEED (PEA, GRAM OR RED KIDNEY BEAN).

**SUBJECT- SOCIAL SCIENCE**

**GENERAL OBJECTIVES:**

1. TO DEEPEN KNOWLEDGE ABOUT THE UNDERSTANDING OF INDIA'S FREEDOM STRUGGLE AND OF THE VALUES AND IDEALS THAT IT REPRESENTED; AND TO DEVELOP AN APPRECIATION OF THE CONTRIBUTIONS MADE BY PEOPLE OF ALL SECTIONS AND REGIONS OF THE COUNTRY.
2. TO CREATE AN UNDERSTANDING OF INDIA'S ENVIRONMENT IN ITS TOTALITY, THEIR INTERACTIVE PROCESSES AND EFFECTS ON THE FUTURE QUALITY OF PEOPLE'S LIVES.
3. TO HELP LEARNERS UNDERSTAND AND CHERISH THE VALUES ENSHRINED IN THE INDIAN CONSTITUTION AND TO PREPARE THEM FOR THEIR ROLES AND RESPONSIBILITIES AS EFFECTIVE CITIZENS OF A DEMOCRATIC SOCIETY.
4. TO FAMILIARISE WITH THE CONCEPTS OF MACROECONOMICS AND ALSO UNDERSTAND THE WORKING OF THE GLOBAL ECONOMIC PHENOMENON.

**BOOK : NCERT**

**TERM – 1**

**(APRIL 2022 – OCT 2022)**

**PERIODIC TEST-I (JULY 2022)**

**HISTORY**

CHAPTER – 1 THE RISE OF NATIONALISM IN EUROPE

**GEOGRAPHY**

CHAPTER – 1 RESOURCES AND DEVELOPMENT

**ECONOMICS**

CHAPTER – 2 SECTORS OF INDIAN ECONOMY

**HALF YEARLY EXAMINATION**

**(OCTOBER 2022)**

**HISTORY**

CHAPTER - 2 NATIONALISM IN INDIA

CHAPTER- 4 THE AGE OF INDUSTRIALIZATION

CHAPTER- 5 PRINT CULTURE AND THE MODERN WORLD

**GEOGRAPHY**

CHAPTER - 2 FOREST AND WILDLIFE

CHAPTER – 3 WATER RESOURCES

CHAPTER – 4 AGRICULTURE (**EXCLUDING IMPACT OF**

**GLOBALISATION ON**

**AGRICULTURE)**

CHAPTER – 5 MINERALS AND ENERGY RESOURCES

CHAPTER – 6 MANUFACTURING INDUSTRIES

**CIVICS**

CHAPTER – 1 POWER SHARING

CHAPTER – 2 FEDERALISM

CHAPTER – 4 GENDER, RELIGION AND CASTE (**EXCLUDING**

**IMAGES ON PG 46,**

**48 & 49 OF THE TEXTBOOK)**

CHAPTER – 6 POLITICAL PARTIES

CHAPTER– 7 OUTCOMES OF DEMOCRACY

**ECONOMICS**

CHAPTER 1- DEVELOPMENT

CHAPTER- 3 – MONEY & CREDIT

CHAPTER 4- GLOBALISATION AND THE INDIAN ECONOMY

**WORK ONLY)**

**MAP WORK :** MAP WORK RELATED TO MAJOR SOIL TYPES, DAMS, MAJOR FOOD CROPS AND NON FOOD CROPS, MINERAL MINES, OIL FIELDS AND POWER PLANTS.

**TERM -2**

**(NOVEMBER 2022 TO MARCH 2023)**

**HISTORY** CHAPTER - 3 THE MAKING OF A GLOBAL WORLD

**GEOGRAPHY** CHAPTER – 7 LIFELINES OF NATIONAL ECONOMY

**MAP WORK:-** INDIAN NATIONAL CONGRESS SESSIONS AND IMPORTANT CENTRES OF INDIAN NATIONAL MOVEMENT.

COTTON TEXTILE INDUSTRIES, IRON AND STEEL PLANTS, SOFTWARE TECHNOLOGY PARKS, NATIONAL HIGHWAYS, MAJOR PORTS AND INTERNATIONAL AIRPORTS.

**PERIODIC TEST-2 - DECEMBER 2022**

**PRE-BOARD EXAMINATION - JANUARY 2023**

**(COMPLETE SYLLABUS)**

**SUBJECT- COMPUTERS**

**TERM 1 ( APRIL 2022-OCT 2022)**

**HALF YEARLY EXAMINATION**

PART A: EMPLOYABILITY SKILLS

UNIT 1 : COMMUNICATION SKILLS-II

UNIT 2 : SELF-MANAGEMENT SKILLS-II

UNIT 3 : INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS-II

UNIT 4 : ENTREPRENEURIAL SKILLS-II

UNIT 5 : GREEN SKILLS-II

PART B

UNIT 4: WEB APPLICATIONS AND SECURITY

UNIT 2: ELECTRONIC SPREADSHEET (ADVANCED)

**TERM 2 ( NOV 2022-JAN 2023)**

PART B

UNIT 1 : DIGITAL DOCUMENTATION (ADVANCED)

UNIT 3: DATABASE MANAGEMENT SYSTEM

# **PRE-BOARD EXAMINATION- COMPLETE SYLLABUS**

## **SUBJECT- PHYSICAL EDUCATION & SPORTS ACTIVITY PROGRAMME**

### **FIRST TERM (APRIL 2022-OCT 2022)**

#### **1. VOLLEYBALL –BASIC RULES & REGULATION OF THE GAME.**

SERVICE-UNDER HAND SERVICE, SIDE ARM SERVICE, TENNIS SERVICE, FLOATING SERVICE.

- PASS- UNDER HAND PASS, UPPER HAND PASS
- BLOCK - SINGLE BLOCK, DOUBLE BLOCK, TRIPLE BLOCK
- SMASH

#### **2. ATHLETICS- THROWING EVENTS**

- SHOT PUT, DISCUS THROW-BASIC RULES OF GAMES
- JUMPING EVENTS-HIGH JUMP, LONG JUMP, TRIPLE JUMP-BASIC RULES OF GAMES.
- SHOT DISTANCE RUNNING- 100MTR,200MTR,400MTR, RELAY RACE
- RUNNING COMMAND – ON YOUR MARK, SET, AND GUN/FIRE.

#### **3 BASKETBALL-BASIC RULES AND REGULATIONS OF GAMES.**

- PASS-CHEST PASS, BOUNCE PASS
- DRIBBLING/PIVOTING, DODGE, FREE THROW, SHOOTING.

#### **4 INDOOR GAMES**

- BADMINTON
- CHESS
- TABLE TENNIS

#### **OUTDOOR GAMES**

- TENNIS
- SKATING

**PREPARATION FOR THE COMPETITIONS-C.B.S.E CLUSTER(ZONE/NATIONAL) SGFI INTER SCHOOL TOURNAMENT AND ANNUAL BBPS SPORT MEET.**

## SECOND TERM (NOV. 2022-MARCH 2023)

### **1. KHO-KHO-BASIC RULES AND REGULATIONS OF THE GAME .**

- CHASING –DIVING, LET HAND, CHASE, RIGHT HAND FAKE KHO, CHAIN KHO.
- RUNNING- DODGING TAKES PLACE IN GAME AREA, RUNNING.

### **2. KABADDI -BASIC RULES AND REGULATION OF THE GAME**

- DRIVE, RIDE, RAIDER, SIDE KICK, BACK KICK, FOOT TOUCH, TOE TOUCH, ROLL KICK
- HAND TOUCH, BLOCKING, WRIST HOLD, TRUNK HOLD
- ADVANCED RAIDING SKILLS

### **3. TENNIS-BASIC RULES AND REGULATIONS OF GAME.**

- HOW TO HOLD A PADDLE
- FOOT WORK, BACKHAND
- SERVING