



**MATHEMATICS**

1. NUMBER SYSTEM
2. POLYNOMIALS
3. COORDINATE GEOMETRY
4. LINEAR EQUATIONS IN TWO VARIABLES
5. EUCLID GEOMETRY (ONLY AXIOMS AND POSTULATES STATEMENTS)
6. LINES AND ANGLES
7. TRIANGLES
8. QUADRILATERALS
9. AREAS OF PARALLELOGRAMS AND TRIANGLES
10. CIRCLES
11. CONSTRUCTIONS
12. HERON'S FORMULA
13. SURFACE AREA AND VOLUMES
14. PROBABILITY
15. STATISTICS

**MATHS PRACTICAL EXAM TO BE CONDUCTED ON 24<sup>TH</sup>JANUARY :  
EXPERIMENT NUMBER: 6,7,8,9,10**

**SCIENCE:**

**Theory:**

- Chapter 1. Matter in our surroundings
- Chapter 2. Is matter around us pure
- Chapter 3. Atoms and molecules
- Chapter 4. Structure of the atom
- Chapter 5. The fundamental unit of life
- Chapter 6. Tissues
- Chapter 7. Diversity in living organisms
- Chapter 8. Motion
- Chapter 9. Force and laws of motion
- Chapter 10. Gravitation
- Chapter 11. Work and energy
- Chapter 12. Sound
- Chapter 13. Why do we fall ill
- Chapter 14. Natural resources
- Chapter 15. Improvement in food resources

**Practicals:**

1. Preparation of:
  - a) a true solution of common salt, sugar and alum
  - b) a suspension of soil, chalk powder and fine sand in water

- c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of
  - transparency
  - filtration criterion
  - stability

2. Preparation of:

- a) a mixture
- b) a compound

using iron filings and sulphur powder and distinguish between these on the basis of:

- i. appearance, i.e., homogeneity and heterogeneity
- ii. behaviour towards a magnet
- iii. behaviour towards carbon disulphide as a solvent
- iv. effect of heat

3. Separation of the components of a mixture of sand, common salt and ammonium chloride (or camphor).

4. Performing the following reactions and classifying them as physical or chemical changes :

- a. Iron with copper sulphate solution in water
- b. Burning of magnesium in air
- c. Zinc with dilute sulphuric acid
- d. Heating of copper sulphate
- e. Sodium sulphate with barium chloride in the form of their solutions in water

5. Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labeled diagrams.

6. Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides. Drawing of their labeled diagrams.

7. Determination of the melting point of ice and the boiling point of water.

8. Verification of the Laws of reflection of sound.

9. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.

10. Establishing the relation between the loss in weight of a solid when fully immersed in

- a) tap water
- b) strongly salty water, with the weight of water displaced by it by taking at least two different solids.

11. Determination of the speed of a pulse propagated through a stretched string / slinky.

12. Study of the characteristics of Spirogyra / Agaricus, Moss / Fern, Pinus (either with male or female cone) and an Angiospermic plant. Drawing and providing two identifying features of the groups they belong to.

13. Observing the given pictures / charts / models of earthworm, cockroach, bony fish and bird. For each organism, drawing of their picture and recording:

- a) one specific feature of its phylum.
- b) one adaptive feature with reference to its habitat.

14. Verification of the law of conservation of mass in a chemical reaction.

15. Study of the external features of root, stem, leaf and flower of monocot and dicot plants.

**\* practical based questions will also be tested in the theory paper**

## हिंदी:

- स्पर्श**
- i) धूल
  - ii) दुख का अधिकार
  - iii) रैदास के पद
  - iv) आदमीनामा
  - v) एवरेस्ट:मेरी शिखर यात्रा
  - vi) तुम कब जाओगे, अतिथि
  - vii) रहीम के दोहे
  - viii) एक फूल की चाह
  - ix) वैज्ञानिक चेतना के वाहक
  - x) कीचड़ का काव्य
  - xi) गीत-अगीत
  - xii) अग्नि-पथ
  - xiii) धर्म की आड़
  - xiv) नए इलाके में
  - xv) शुक्रतारे के समान
  - xvi) खुशबू रचते हैं हाथ
- संचयन :**
- i) गिल्लू
  - ii) स्मृति
  - iii) कल्लू कुम्हार की उनाकोटी
  - iv) मेरा छोटा-सा निजी पुस्तकालय
  - v) हामिद खाँ
  - vi) दिए जल उठे
- व्याकरण:**
- i) वर्ण-विच्छेद
  - ii) अनुस्वार
  - iii) अनुनासिक
  - iv) उपसर्ग-प्रत्यय
  - v) संधि (स्वर, व्यंजन, विसर्ग)
  - vi) विराम चिह्न
  - vii) नुक्ता
- लेखन:** पत्र (अनौपचारिक), अपठित काव्यांश, अपठित गद्यांश, अनुच्छेद, चित्रवर्णन, विज्ञापन लेखन, संवाद लेखन।

## SANSKRIT

पाठ्यक्रम संस्कृत  
कक्षा - नवमी - वार्षिक परीक्षा

- पाठ - 1 तत् त्वम् असि  
2 अविवेकः परमापदां पदम्  
3 पार्थिवम्  
4 स्वस्थवृत्तम्  
5 आतृश्नेहस्तु दुर्लभः  
6 विद्यया भान्ति सदगुणाः  
7 तस्मै नमोऽस्तु  
8 कर्मणा याति संसिद्धिम्  
9 विजयताम् स्वदेशः  
10 कोऽहं वेदतु साम्प्रतम् ?  
11 न धर्मवृद्धेषु वयः समीक्ष्यते  
12 कवयामि वयामि यामि  
13 भारतीयं विज्ञानम्  
14 भारतैनास्ति मे जीवनम् जीवनम्

व्याकरण - अपाठित गद्यांश, चित्र वर्णन, पत्र-पूर्ति  
प्रत्ययः - क्त्वा, ल्यप्, तुमुन्  
उच्चारण स्थान, वर्णनी विन्धास  
धातु रूप, शब्द रूप - अन्धास परिष्कारानुसार  
उपपद विभक्ति - अन्धास परिष्कारानुसार  
सन्धि - दीर्घ, गुण, वृद्धि  
विसर्ग, व्यंजन

## GERMAN

SECTION A- Unseen passages

SECTION B- EMAIL and Dialogue writing

SECTION C - Perfect, separable verbs, prepositions, past tense, question making, conjunctions, personal pronomen

SECTION D - Vocabulary, value based.

## FRENCH:

Lecon :- 1-12

Section A :- La Compréhension

Section B :- L'Expression Écrite

1. La lettre
2. Les recettes
3. Le message / L'invitation
4. La carte postale
5. Décrivez l' image

Section C :- Grammaire

1. Les articles
2. Les adjectifs possessifs

3. Les adjectifs démonstratifs
4. Les prépositions
5. Les temps – Présent, futur Proche, futur simple, Passé composé ,  
Pronominal verbs, Impératif , passe recent ,imparfait, conditionnel present
6. L'interrogation
7. La negation
8. Les pronoms personnels
9. Les adjectifs interrogatifs et Les pronoms interrogatifs
10. Les pronoms relatifs

**Section D :- Culture et Civilisation**  
Lecon 1-12

### **COMPUTERS**

Chapter 1  
Chapter 5

Introduction to the Internet

#### **HTML – I**

- Font tag
- Horizontal Rule
- Subscript and Superscript
- Working with lists
- Nested Lists

### **S.ST.:**

#### **HISTORY**

1. The French Revolution
2. Socialism in Europe and the Russian Revolution
3. Nazism and the rise of Hitler
4. Forest society and Colonialism

**Map Work – map on the major centers of French Revolution**

- **Map on the Russian empire and the European countries of war during the first world war**
- **Map showing the territories that Germany lost after the treaty of Versailles**
- **Major Eurpean powers at war during the second world war**
- **Major centers of the Bastar Rebellion**

#### **POLITICAL SCIENCE**

5. What is Democracy? Why Democracy?
6. Constitutional Design
7. Electoral Politics
8. Working of Institutions
9. Democratic Rights

#### **GEOGRAPHY**

10. India – Size and location

(Map – India – States with capitals, Tropic of Cancer, Standard meridian, southernmost, northernmost, easternmost, and westernmost point of India [ Location and Labelling])

11. Physical Features of India

(Map – [ Location and Labelling])

**Mountain ranges: The Karakoram, the Zaskar, the Shivalik, The Aravali, the Vindhya, the Satpura, Western and Eastern Ghats.**

- **Mountain peaks – K2, Kanchanjunga, AnaiMudi**

- Plateau – Deccan plateau, Chota Nagpur Plateau, Malwa Plateau
- Coastal Plains – Konkan, Malabar, Coromandal and Northern Circars

## 12. Drainage

(Map – Identification only)

- Major rivers – Indus, Ganga, Satluj, Narmada, Tapi, Kaveri, Krishna, Godavari, Mahanadi
- Lakes – Wular, Pulicat, Sambhar, Chilika, Vembanad, Kolleru

## 13. Climate

(Map – Location and labelling – major meteorological stations – Tiruvananthapuram, Chennai, Jodhpur, Bangalore, Mumbai, Kolkata, Leh, Shillong, Delhi, Nagpur.

- Identification only – areas receiving rainfall less than 20cm and over 400 cm.

## 14. Natural Vegetation and Wildlife

(Map – for identification – Forest types of India)

Location and labelling – Corbett, Kaziranga, Ranthambor, Shivpuri, Kanha, Simlipal, Manas, Bharatpur, Ranganthitto, Sariska, Mudumalai, Rajaji, Dachigam

## 15. Population

(Map – location and labelling – state having highest and lowest density of population, sex ratio, state according to area.)

**NOTE: ITEMS OF LOCATING AND LABELLING MAY ALSO BE GIVEN FOR IDENTIFICATION.**

## ECONOMICS

**Chapter-1 Story of village Palampur**

**Chapter-2 People as a resource**

**Chapter-3 Poverty as a challenge**

**Chapter-4 Food security in India**

## ENGLISH:

Literature Reader

### PROSE

1. How I Taught My Grandmother to Read
2. A Dog Named Duke
3. The Man Who Knew too Much
4. Keeping it from Harold
5. Best Seller

### POETRY

1. The Brook
2. The Road Not Taken
3. The Solitary Reaper
4. The Seven Ages
5. Oh, I Wish I'd Looked After Me Teeth
6. Song of the Rain

### DRAMA

1. Villa for Sale
2. The Bishop's Candlesticks

### Main Course Book

1. People
2. Adventure
3. Environment
4. The Class IX Radio and Video Show
5. Mystery
6. Children
7. Sports and Games

### Work Book

1. Verb Form
2. Determiners
3. Future Time Reference
4. Modals
5. Connectors
6. The Passive
7. Reported Speech
8. Prepositions

Long Reading Text

Three Men in a Boat (Chapters 1- 19)

**G.K.**

**Total marks: 50**

Mental Ability=15

Subject Based=10

Financial Literacy=5 (pages: 10-23)

Current affairs=15

Opinion Based=5

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*BS\_Syllabus @ A.E 16 - 17*