Physics

Chapter 10: GRAVITATION
Thrust and pressure, Buoyancy, Archimedes principle, conditions for floatation and sinking, elementary idea of relative density.

Chapter 11: WORK, ENERGY AND POWER
Mechanical work done by a force, conditions for work done, Energy, potential and kinetic energy, Law of conservation of energy, Commercial unit of energy and its relationship with the S.I unit of energy, Power.

Chapter 12: SOUND
Production and propagation of sound, Transverse and Longitudinal waves. Sound needs a medium to travel, Speed of sound in different media, Characteristics of sound waves, Echo, Reverberation, Range of hearing, SONAR, Structure of the human ear and the functions of each part.

LIST OF EXPERIMENTS
1. To observe and compare the pressure exerted by a solid iron cuboid / glass slab on fine sand / refined flour while resting on its three different faces and to calculate the pressure exerted in the three different cases.
2. To determine the density of solid (denser than water) by using spring balance and a measuring cylinder.
3. To establish 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 the water displaced by it by taking at least two different solids.
4. To verify laws of reflection of sound.
5. To determine the velocity of a pulse propagated through a stretched string / slinky.

BIOLOGY

<table>
<thead>
<tr>
<th>UNITS</th>
<th>MARKS</th>
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| UNIT II
ORGANISATION IN THE LIVING WORLD:
CHAPTER: 7: DIVERSITY IN LIVING ORGANISMS
CHAPTER:11: WHY DO WE FALL ILL? | 26     |
Note: The material for Open Text Book Assessment (OTBA) for SA-II will be from Unit IV: Our Environment. This unit will be tested through OTBA only.

MCQ based on following experiments List of Experiments (this will carry 15% weightage in the paper)
1. To study the characteristics of *Spirogyra/Agaricus*, *Moss/Fern*, *Pinus* (either with male or female cone) and an Angiospermic plant. Draw and give two features of the group they belong to.
2. To observe pictures/charts/models of earthworm, cockroach, fish and bird.
3. For each organism draw and record:
   i. one phylum feature
   ii. one adaptive feature
4. To study the external features of root, stem, leaf and flower of monocot and dicot plants.
5. To study the lifecycle of mosquito.

### CHEMISTRY

**Chapter – 3 Atoms and Molecules.**
- Law of chemical combination.
- Law of conservation of mass.
- Dalton’s atomic theory.
- Atomic mass.
- Molecule and molecular mass.
- Chemical formulae.
- Mole concept.

**Chapter 4 – Structure of atom.**
- Nature of matter.
- Discovery of electrons, protons and neutrons.
- Thomson’s model of atom.
- Rutherford alpha ray scattering experiment.
Rutherford’s Model of an atom.
- Atomic number.
- Mass number.
- Electron distribution
- Valences.
- Isotopes and isobars.

Chapter 14 - Natural resources
1. Introduction.
2. The breath of life – Air
3. Air pollution.
5. Water pollution.

MCQ BASED ON Experiment: To verify the law of conservation of mass in a chemical reaction.

MATH
Chapter-4: Linear Equations in two Variables
Chapter-8: Quadrilaterals
Chapter-9: Areas of Parallelograms and Triangles
Chapter-10: Circles
Chapter-11: Constructions
Chapter-13: Surface Areas and Volumes
Chapter-14: Statistics
Chapter-15: Probability

GERMAN
Module 8
Lek 1- Wie hast du Mutti kennen gelernt?
Lek 2- Wie war es damals?
Lek 3- Es war einmal
Section A- 2 Comprehension Texts
Section B :-) Writing Skills
- Message/ letter/Email writing (any 1 of these writing skills)
- Paragraph or Postcard writing
- summarizing a German passage in English.
Section C:- Applied Grammar
- Subordinate Clauses
- Prepositions
- Partizip Perfekt
- Separable Verbs
- Präteritum
- Question Making (all W questions and Ja/ Nein questions)
- Personal pronouns (Akkusativ and Dativ)

**Section D – Value based Questions**
- Completing a Text with vocabulary provided
- Value based question

**ENGLISH**

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<tbody>
<tr>
<td>1.</td>
<td>Reading Comprehension</td>
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</table>
| 2. | (i) Article Writing  
(ii) Short Story Writing  
(iii) Diary Entry |
| 3. | (i) Integrated Grammar (Editing/Omission)  
(ii) Reported Speech  
(iii) Re ordering of Sentences |
| 4. | (i) Keeping it from Harold  
(ii) The Man Who Knew Too Much  
(iii) The Best Seller  
(iv) Bishop’s Candlesticks  
(v) Song of the Rain  
(vi) Oh, I Wish I’d Looked After Me Teeth  
(vii) Seven Ages of Man |
| 5. | OTBA (Open Text Book Assessment)  
(i) Let’s Welcome, Accept and Respect  
(ii) Indigenous Games of India |
| 6. | Three Men in a Boat (Chapters 11 – 19) |
| 7. | MCB Units:  
i) Mystery  
ii) Children  
iii) Sports and Games |
GEOGRAPHY
1. Climate
2. Natural Vegetation and wild life
3. Population
4. (Map As per the map list for the 2nd term)

ECONOMICS
1. Poverty as a challenge
2. Food security in India

HISTORY
1. Forest Society and Colonialism
2. Clothing: Social History.
   Map

POLITICAL SCIENCE
1. Electoral Politics.
2. Working of Institutions.
3. Democratic Rights

FRENCH
Unité III
Leçon 7 L’argent de poche
Leçon 8 Faire des achats
Leçon 9 Un dîner en famille
Bilan 3
Unité IV
Leçon 10 La mode
Leçon 11 Les fêtes
Leçon 12 La Francophonie
Bilan 4
All related grammar topics
· Les pronoms personnels
· Les pronoms relatifs simples (qui, que, où)
· Les verbes
· Le Comparatif et le superlatif
· Les négations
· L’adjectif et le pronom interrogatif
Writing skills
· Letter writing
· Recipe writing
- Message writing
- Putting dialogues in order
Unseen comprehension
Question answers including Value based questions (Leçons 7 – 12 )
True and False
Match the following
Fill in the blanks

Hindi

अपठित बोध - अपठित गद्यांश और पद्यांश।
व्याकरण - वर्ण-विचार, उपसर्ग-प्रत्यय, संधि, विराम-विहन।
स्पर्श – वैज्ञानिक वेतना के वाक्यः चंद्रशेखर वेंकट रामन, कीचड़ का काव्यः, धर्म की आड़, श्रुत्तारे के समान, एक फूल की चाहः, गीत-अग्नि, अब्जिन-पथ, अरुण कमल।
संचयन – मेरा छोटा सा निजी पुस्तकालयः हामिद ख़ाँ, दिये जल उठे।
रचनात्मक लेखन - अनुच्छेद-लेखन, औपचारिक पत्र-लेखन, चित्र- वर्णन, संवाद-लेखन, विज्ञापन-लेखन।

Sanskrit

- अपठित गद्यांश,
- अलौकिक पत्र लेखन,
- चित्र वर्णन अथवा अनुच्छेद लेखन
- शब्द रूप - हलस्तत सहस्रार्थ साधन शब्द
- धातु एवं पर्यायावर्गीय आत्मनायोग एवं उदाहरण
- उपसर्ग विभिन्नितायेऽऽ - द्वितीयो स्थानीय
- प्रत्यय - मन्त्र कवितानु पद्म एवं शान्ति
- पृथक अवबोधन - गुस्तक से पाठ एक से सात - अवबोधन कार्यः शलक अन्त्यः प्रश्न निर्माणः कथा क्रम संयोजनः संदर्भां शब्दीयः मेलनम्