

WINTER BREAK HOLIDAYS HOME WORK

Class : 6

Subject: हिंदी

1. सुभद्रा कुमारी चौहान रानी लक्ष्मीबाई को मर्दानी क्यों कहती थी?
2. प्रकृति का जादू किसे कहा गया है?
3. लाखों करोड़ों वर्ष पहले हमारी पृथ्वी कैसी थी?
4. मैं सबसे छोटी होऊँ कविता में छोटी होने की कल्पना क्यों की गई है?
5. अपने मित्र को उसके जन्मदिन पर बधाई देने के लिए पत्र लिखें?

अनुच्छेद लेखन

1. स्वच्छता का महत्व

Subject: संस्कृत

1. बालकाः, मयूराः, वर्णाः, कुक्कुरौ

उपर्युक्त पदानां वर्ण विच्छेद कुरुत।

2. उचित अव्यय पदानां प्रयोगं कृत्वा पञ्च वाक्यानि रचयति।
3. पञ्च विलोम पदानि लिखत।
4. पञ्च तत्सम शब्दान् लिखत।

Subject: ENGLISH

1. Write the answers to questions from PT 2 question paper in your ACTIVITY NOTEBOOK.
2. Learn the poem VOCATION for recitation in the class – 5m
3. Read the lessons The Banyan Tree and A Pact with the Sun for reading test and learn the spellings of difficult words for dictation.
4. Prepare for the dramatization of the lesson FAIR PLAY
5. Practise one page handwriting everyday
6. Read story books to narrate a story in the class

Subject: MATHEMATICS

1.the lid of a rectangular box of sides 40cm by 10cm is sealed all round with tape.what is the length of the tape required?

2.A table top measure 2m 25cm by 1m 50cm .what is the perimeter of the table –top?

3.In Mathematics test,the following marks were obtained by 40 students .arrange these marks in a table using tally marks .

8 1 3 7 6 5 5 4 4 2

4 9 5 3 7 1 6 5 2 7

7 3 8 4 2 8 9 5 8 6

7 4 5 6 9 6 4 4 6 6

(a)Find how many students obtained marks equal to or more than 7.

(b)How many students obtained marks below 4?

4.The number of Mathematics books sold by a shopkeeper on six consecutive days is shown below:

Days	sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Number of books sold	65	40	30	50	20	70

Draw a bar graph to represent the above information choosing the scale of your choice.

5.Rashid spent 35.75 for maths book and 32.60 for science book.find the total amount spent by Rashid.

Subject: SCIENCE

Answer the following questions

1. Write any two properties of a magnet.
2. Where are poles of a bar magnet located?
3. You are given an iron strip. How will you make it into a magnet?
- 4.draw the different shapes of the magnets 5. Draw the compass diagram
5. How is a compass used to find directions?
6. Using the "conduction tester" on an object it was found that the bulb begins to glow. Is that object a conductor or an insulator? Explain.
7. Why should an electrician use rubber gloves while repairing an electric switch at your home? Explain.
8. The handles of the tools like screwdrivers and pliers used by electricians for repair work usually have plastic or rubber covers on them. Can you explain why?

Subject: SST (Activity book)

1. PERIODIC TEST -2 QUESTIONS AND ANSWERS
2. MAJOR DOMAINS OF THE EARTH QUESTION AND ANSWER

Class : 7

Subject: हिंदी

१. हम पक्षी उन्मुक्त गगन के कविता के लेखक का नाम बताएं?

२. आज खान पान की बदलती तस्वीर से हमारा खान-पान किस प्रकार बदल रहा है लिखें?
३. आंख में तिनका पढ़ने से घमंडी की क्या दशा हुई?
४. स्वतंत्रता किस-किस को प्रिय है?
५. निम्न शब्दों के अर्थ लिखें?
 १. चाइनीस
 २. जानकर
 ३. जटिल
 ४. मिश्रित

Subject: संस्कृत

- १ उचित अव्यय पदानां प्रयोगं कृत्वा पञ्च वाक्यानि रचयति ।
- २ अधोलिखित अंकानां कृते संख्यापदानि संस्कृतेन लिखत ।
१८, २१, १५, ३३
- ३ अधोलिखितानां धातु, लकार, पुरुष, वचनं च लिखत ।
आसीत्, आगच्छत्, गमिष्यामि, कुर्वन्ति ।
- ४ उदाहरणानुसारं पद रचनां कुरुत
यथा लिखति स्म – अलिखत्
पश्यति स्म, गच्छति स्म, वदति स्म, हसति स्म ।

Subject: ENGLISH

1. Write the answers to questions from PT 2 question paper
In your ACTIVITY NOTEBOOK.
2. Learn the poem Meadow Surprises for recitation – 5m
3. Practise one page handwriting everyday
4. Read the lessons - A Tiger in the House and The Bear Story, for reading test and learn the spellings of the difficult words for dictation
5. Prepare for speaking activity on the topics given in the class
6. Read story books to narrate a story in the class.

Subject: MATHEMATICS

1. express each of the following numbers using exponential notation:
(a) 512 (b) 343
2. Identify the greater number wherever possible, in each in the following ?
(i) 4^3 or 3^4 (ii) 2^8 or 8^2
3. subtract ; $4pq-5q^2-3p^2$ from $5p^2+3q^2-pq$

4. Find the cost of polishing a circular table-top of diameter 1.6m, of the rate of polishing is Rs 15/m² (take $\pi=3.14$)

5. Saima wants to put a lace on the edge of a circular table cover of diameter 1.5m, Find the length of the lace required and also find its cost if one meter of the lace costs Rs15 (take $\pi=3.14$)

Subject: SCIENCE– ACTIVITY BOOK

NCERT TEXT BOOK:

LESSON NAME: LIGHT EXERCISE

1. HALF YEARLY QUESTION PAPER SOLVING

2. NEWTONS DISC MODEL MAKING AND WORKING

3. RAY DIAGRAMS. 15.6, 15.12 AND 15.24

CCT QUESTION (PARAGRAPH PAGE NO 185 & 15,6 PARAGRAPH. QUESTIONS FOLLOWS LIKE THIS.

4. IS SUNLIGHT WHITE OR COLOURED?

HOW MANY COLOURS ARE THERE IN SUNLIGHT?

5. NAME THE BEAUTIFUL PATTERN OBSERVED IN THE SKY IMMEDIATE AFTER RAIN?

6. HOW MANY COLOURS ARE PRESENT IN THE RAINBOW?

7. CAN WE DISTINGUISH ALL THE SEVEN COLOURS IN THE RAINBOW?

Subject: SST (Activity book)

1. PERIODIC TEST -2 QUESTION AND ANSWER

2. MARKET AROUND US QUESTION AND ANSWER

Class : 8

Subject: हिंदी

विषय हिंदी कक्षा 8 शीतकालीन अवकाश गृह कार्य(2022)

1. आज के समय में श्री कृष्ण और सुदामा की दोस्ती से आपको क्या शिक्षा मिलती है ? उत्तर 8 से 10 पंक्तियों में लिखें।
2. अभि, प्र और अनु उपसर्गों का प्रयोग करके 3 - 3 नए शब्द लिखिए।
3. अगर आपको ₹250 की आवश्यकता है, अभी आपके पिता के पास पैसे नहीं हैं। ऐसी स्थिति में आप पैसों की व्यवस्था कैसे करेंगे लिखिए।
4. एक अच्छे नागरिक के क्या कर्तव्य हैं,।
5. चित्र सहित एक कविता लिखिए विषय है - " पानी की कहानी"

Subject: संस्कृत

१ पञ्च संधि पदं लिखित्वा विच्छेदं कुरुत-

२ पञ्च विलोम पदानि लिखत-

३ क्त्वा, तुमुन् च प्रत्ययः प्रयोगं कृत्वा पञ्च पदानि लिखत-

४ 'मातृ' शब्दरूपाणि लिखत।

५ पञ्च तत्सम शब्दान् लिखत।

Subject: ENGLISH

1. Solve the Monthly Test Question Paper
2. Write the five question answers each from five lessons of your main textbook.
3. Write one long answer question each from five stories of Supplementary reader
4. Write a paragraph on health is wealth

Subject: MATHEMATICS

- 1.If the weight of 12 sheets of thick paper is 40grams ,how many sheets of the same paper would weight 2 $\frac{1}{2}$ kilograms?
- 2.Express the following numbers in standard form.
(i)0.0000000000085
(ii)3.02x10⁻⁶
- 3.Find the height of the cylinder whose volume is 1.54m³ and diameter of the base is 140cm?
- 4.A closed cylindrical tank of radius 7m and height 3m is made from a sheet of metal .how much sheet of metal is required?
- 5.Find the side of a cube whose surface area is 600cm²?

Subject: SCIENCE

- 1.Describe the natural phenomenon?
- 2.How do you control sound pollution?
3. Draw the diagrams of modern musical instrument?
- 4.Collect the picture of irrigations system in India?
5. Describe the different agriculture practices in India?

Subject: SOCIAL SCIENCE

1. PERIODIC TEST -2 QUESTION AND ANSWERS WITH CHOICE
2. HUMAN RESOURCES QUESTION AND ANSWERS

Class : 9

Subject: हिंदी

(शीतकालीन अवकाश गृह कार्य)

1. 'योग हमारे स्वास्थ्य के लिए लाभकारी है' विषय को ध्यान में रखते हुए अनुच्छेद लिखिए। (20 से 25 पंक्तियां)

2. अपने मनपसंद किसी सुंदर वृक्ष के साथ बातचीत करते हुए संवाद लिखिए । संवाद का विषय - वृक्ष और मैं
3. आगामी वर्ष से दसवीं कक्षा के बोर्ड परीक्षा के हटाए जाने के पक्ष अथवा विपक्ष में अपना विचार प्रकट करते हुए अपने मित्र को एक पत्र लिखिए । (अनौपचारिक पत्र
4. आपने अपने घर में एक जानवर को पाल रखा है उसके विशेषताओं को बताते हुए एक लघु कथा लिखिए ।
5. 'मेरी पहचान हिंदी भाषा' विषय पर एक कविता लिखते हुए चित्रांकन कीजिए।

Subject: संस्कृत

- १ दिन द्वयस्य अवकाशार्थं प्राचार्यः प्रति पत्रं लिखत।
- २ लट्लकारस्य, लृट्लकारस्य च प्रयोगं कृत्वा पञ्च संस्कृत वाक्यानि लिखत।
- ३ संधि विच्छेदं कुरुत -
विद्यालयं, सदैव, परोपकार, गिरीश, स्वागतम्।
- ४ प्रकृति प्रत्ययं विभज्य लिखत -
विहस्य, पातुम्, पठित्वा विहाय, कर्तुम्, दृष्ट्वा।
- ५ पञ्च विलोम पदानि लिखत।

Subject: ENGLISH

1. Prepare for pt – 2 exam to be held in Jan, 2023. Read the lessons and poems taught after half yearly exams
2. Solve the worksheets on Reading Passages and Grammar Exercises which will be shared in your class whatsapp group
3. Short answer questions based on the poems – write the answers in
SUBJECT ENRICHMENT NOTEBOOK
4. VOCABULARY /WORD ATTACK- based on the lessons from reader & supp reader allotted to the groups (group work)
5. CREATIVE WRITING: POEMS AND ARTICLES as discussed in the class.
6. ART INTEGRATION PROJECT: based on the lessons from the reader and supp reader.

Subject: PHYSICS

- 1) Examples of law of conservation of energy (any 10)
- 2) work and energy exercise 11.1 to 11.10
- 3) short notes on different forms of energy

Subject: BIOLOGY

1. Explain the structure of the living cell with the help of neat labelled diagram.
2. Write short note on the following
 1. Bee Keeping
 2. Poultry
 3. Fisheries
3. Describe the different source of Irrigation methods in India.
4. Write the differences between Manures and Fertilizers.
5. What are the weeds? Write the process of Eradication of Weeds.

SUBJECT:CHEMISTRY

1. Compare the properties of electrons, protons and neutrons
2. Explain the Rutherford's alpha scattering experiment?
3. Explain Bohr's atomic model of the atom
4. Write the electronic configuration of 1 to 20 elements
5. Write the chemical formulae of the following.
 - (a) Magnesium chloride
 - (b) Calcium oxide
 - (c) Copper nitrate
 - (d) Aluminium chloride
 - (e) Calcium carbonate.
6. Convert the following into mole.
 - (a) 12 g of oxygen gas
 - (b) 20 g of water
 - (c) 22 g of carbon dioxide.
7. Define the atomic mass unit(a.m.u)
8. Define compound . give four examples.

Subject: SOCIAL SCIENCE (Activity book)

1. Describe the problems faced by the Weimar Republic.
2. What are the peculiar features of Nazi thinking?
3. Name different types of Vegetation found in India and describe the vegetation of high altitudes.?
4. Distribution of population in India is uneven." Prove this statement with examples.?
5. Write a short note on the following fundamental rights:
 - (a) Right to Freedom of Religion.
 - (b) Cultural and Educational Rights
6. Explain the major powers and functions of the Prime Minister.
7. Describe how the poverty line is estimated in India.?
8. Describe global poverty trends.?
9. Write notes on Minimum Support Price, Buffer Stock, Issue Price and Fair Price Shops.?
10. What has our government done to provide food security to the poor? Discuss any two schemes launched by the government?

2. PROJECT WORK - DISASTER MANAGEMENT (A4 Sheet)

Subject: MATHEMATICS

1. The angles of quadrilateral are in the ratio 3:5:9:13.find all the angles of the quadrilateral.
2. if the diagonals of a parallelogram are equal, then show that it is a rectangle.

3. Show that if the diagonals of a quadrilateral bisect each other at right angles, then it is a rhombus.
4. Two circles of radii 5cm and 3cm intersect at two points and the distance between their centres is 4cm. Find the length of the common chord.
5. If diagonals of a cyclic quadrilateral are diameters of the circles through the vertices of the quadrilateral, prove that it is a rectangle.
6. If the non-parallel sides of a trapezium are equal, prove that it is cyclic?
7. Find the area of a triangle two sides of which are 18cm and 10cm and the perimeter is 42cm
8. Sides of a triangle are in the ratio of 12:17:25 and its perimeter is 540cm. Find its area
9. A conical pit of top diameter 3.5m is 12m deep. What is its capacity in kilolitres.
10. How many litres of milk can a hemispherical bowl of diameter 10.5 cm hold?

Subject: Computer Science - AI(Artificial Intelligence)

1. What is Python
2. Why Python?
3. What can Python do?
4. How to use Python
5. Python Interpreter
6. Character set
7. Python Tokens
 - (i). Keywords
 - (ii). Identifiers (Names)
 - (iii). Literals
 - (iv). Operators
 - (v). Punctuators.
8. Write 1 to 21 programs in record.

Class : 10

Subject: हिंदी (शीतकालीन अवकाश गृह कार्य)

1. समय का सदुपयोग विषय पर एक अनुच्छेद लिखिए। [15 से 20 पंक्ति में]
2. विद्यालय की विज्ञान प्रयोगशाला को अत्याधुनिक बनाने की आवश्यकता समझाते हुए अपने विद्यालय के प्रधानाचार्य को पत्र लिखिए।
3. 'पर्यावरण की हरियाली जीवन की खुशहाली' विषय पर एक संदेश लिखिए।
4. आपने प्लास्टिक के पेन की जगह लकड़ी के पेन बनाए हैं, आप उन्हें लोगों तक जागरूकता के लिए पहुंचाना चाहते हैं और अधिक से अधिक उन्हें बेचना चाहते हैं। इस संदर्भ में एक विज्ञापन तैयार कीजिए।
5. 'आजाद पक्षी' विषय पर अपने मन से एक कविता बनाइए और चित्रांकन कीजिए।

Subject: संस्कृत

१ मातुः अस्वस्थता विषये प्राचार्यं प्रति एकं पत्रं लिखत।

२ लोटलकारस्य, विधिलिङ्गलकारस्य प्रयोगं कृत्वा पञ्च संस्कृत वाक्यानि लिखत।

३ संधि विच्छेदं कुरुत -

प्रार्थनैषा , स्वागतम्, सज्जनः, भवनम्, दिगम्बरः, रत्नागारः, राजेन्द्रः, नमस्ते।

४ समास विग्रहं कुरुत -

महापुरुषः, त्रिलोकी, पञ्चवटी, उपरामम्, प्रतिदिनम्, मुखचन्द्रं, राजपुत्रः, ग्रामगतः रामलक्ष्मणौ।

५ अधोलिखित अंकानां कृते संस्कृत संख्यापदानि लिखत-

८.०० , ९.१५ , १०.३० , १०.४५ , ११.१०

Subject: ENGLISH

1. Prepare for Pre Board – 2 to be held in jan, 2023. Read all the lessons and poems thoroughly to score better marks.
2. Solve the worksheets on reading passages and grammar exercises. Worksheets will be shared in class whatsapp group.
3. SAQ's – 18 marks. Answer the short answer questions from PT – 1 & 2, Monthly Test 1 & 2 in long answer sheets.
4. Solve the questions from the first Pre Board Paper in your SUBJECT ENRICHMENT NOTEBOOK.
5. ART INTEGRATION PROJECT:
CHOOSE ONE TOPIC FROM READER AND SUPP READER DISCUSSED & GIVEN IN THE CLASS

Subject: SOCIAL SCIENCE

1. PRE BOARD EXAM QUESTION AND ANSWER (Activity book)
2. PROJECT WORK -CONSUMER RIGHTS (A4 Sheet)

Subject: PHYSICS

- 1) IMAGE FORMATION BY CONCAVE MIRROR AND CONVEX LENS - RAY DIAGRAMS. 5 MARK
- 2) STATE SNELLS LAW. DEFINE REFRACTIVE INDEX. 2M
- 3) STATE OHMS LAW. DRAW V – I GRAPH. 2M
- 4) STATE FLEMINGS LEFT HAND RULE, 1 M
- 5) DRAW A NEAT AND LABELLED DIAGRAM OF HUMAN EYE. 5 M

SUBJECT:CHEMISTRY

1. What is an homologous series? Explain with an example.
2. Draw the electron dot structures for (i) ethanoic acid. (ii) H₂ S. (iii) propanone. (iv) Ethanol v) Ethane
3. What is hydrogenation? What is its industrial application?
4. Explain the mechanism of the cleaning action of soaps
5. How many structural isomers can you draw for pentane?
- 6.. What are the two properties of carbon which lead to the huge number of carbon compounds we see around us?
7. Define the following terms. (i) Mineral (ii) Ore (iii) Gangue
8. Name two metals which are found in nature in the free state
9. What are alloys? Give two examples
10. . In the electrolytic refining of a metal M, what would you take as the anode, the cathode and the electrolyte?

Subject: BIOLOGY

1. Describe the Human Endocrine System. Write the role of Endocrine Glands.
2. What is the Lymph? Write the role of the Lymph?
3. Write the role of Blood and its Composition.
4. Describe the cause of ozone layer depletion and its effects on plants and animals
5. Describe the structure of Human brain with neat labelled diagram.

Subject: Computer Science - AI(Artificial Intelligence)

1. What is Data and Information?
2. What is Database?
3. What are the advantages and features of database?
4. What is DBMS? Explain it?
5. What is RDBMS?
6. What is Table? How to create a table in a database?
7. Explain about CRUD (Creation, Retrieving, Updating, Deletion) Operations in Database
8. Write 1 to 21 programs in record.

Class : 11

Subject: हिंदी (शीतकालीन अवकाश गृह कार्य)

1. उल्टा पिरामिड शैली क्या है चित्र सहित स्पष्ट करो
2. अपने क्षेत्र में डेंगू बुखार के बचाव के लिए उचित व्यवस्था की ओर ध्यान आकृष्ट करते हुए स्वास्थ्य अधिकारी को एक पत्र लिखिए।
3. आपके विद्यालय में खेल दिवस का आयोजन किया गया है | उसकी रिपोर्ट समाचार लेखन के रूप में लिखिए |
4. हिंदी परियोजना कार्य पूर्ण करें | सभी विद्यार्थियों को अपना परियोजना कार्य पूरा करना है।
5. अपने पसंद के किसी जानवर पर कविता लिखिए और चित्र भी बनाइए |

Subject: ENGLISH

1. Solve the Half yearly Question Paper
2. Write the gist of five lessons of your main textbook.
3. Write one long answer question each from five stories of Supplementary reader
4. Write an article on Stress free education

Subject: BIOLOGY

1. What are the Phyto hormones ? Write their role in Agriculture.
2. Describe the structure of living cell with neat labelled diagram.
3. Describe the different stages of Mitosis with neat labelled diagram.
4. Describe the cyclic and Non-cyclic Photophosphorylation?
5. Write the Factors Affecting the Rate of Photosynthesis.

Subject: PHYSICS

LESSON NAME: MECHANICAL PROPERTIES OF FLUIDS

NCERT TEXT BOOK: PAGE NO. 272

- 1) EXERCISE: 10.1 TO 10.11 & 10.19, 10.20.
- 2) MAKE A PROJECT FILE ON YOUR INTERESTING BRANCH OF PHYSICS
- 3) DETERGENTS AND SURFACE TENSION
- 4) ACTIVITIES: 3 AND 4 IN RECORD NOTE BOOK

Subject: CHEMISTRY

1. State the first law of thermodynamics
2. Define state function And path function. Give example
3. State Extensive and Intensive Properties. Give example
4. Hess's Law of Constant Heat Summation
5. Define entropy and write its formula
6. State the second law of thermodynamics and Third law of thermodynamics
7. Define Standard enthalpy of combustion. Give one example
8. Explain homogeneous and Heterogeneous equilibrium with example
9. Write the characteristics of equilibrium involving in physical process
10. Define Law of chemical equilibrium
11. Explain the open, closed and isolated system

Subject: Computer Science with Python

1. Half yearly Question paper solutions
2. Write 1 to 15 programs in record.

Subject: Physical Education

Important questions for half yearly exam 2022

1. scope and objectives of physical education
2. Aims of physical education

- 3.change in various trends of sports(equipment and rules)
- 4.12 strands of fit India movement and kheloindia
- 5.olympic ring and motto
- 6.special Olympics and Paralympics
- 7.olympiad, abbreviations of sports associations
- 8.whonstarted modern Olympic movement and benefits of world wide sports
- 9.difference between modern and ancient Olympics
- 10.astanga yoga
- 11.shat kriyas
- 12.importance of yoga
- 13.types of disabilities and disorders
- 14.objectives of adaptive physical education
- 15.role of different professionals (counsellor, nutritionist, coach)in development of cwsn
- 16.keyword divyang
- 17.meaning and dimensions of wellness and fitness
- 18.list of traditional games that promote wellness

Class : 12

Subject: हिंदी (शीतकालीन अवकाश गृह कार्य)

1. परीक्षा उत्सव विषय को ध्यान में रखते हुए एक अनुच्छेद लिखिए 20 से 25 पंक्ति
2. रचनात्मक लेखन की कोई पांच विशेषताएं लिखिए
3. आपके विद्यालय में केंद्रीय विद्यालय फाउंडेशन दिवस का आयोजन किया गया है | उसकी रिपोर्ट समाचार लेखन के रूप में लिखिए |
4. अतीत में दबे पांव पाठ को पढ़कर 10 बहु विकल्प आत्मक प्रश्न और उनके उत्तर लिखिए
5. अपने पसंद से चित्र सहित एक छोटी कविता लिखिए
6. शिरीष के फूल पाठ की सार्थकता को स्पष्ट कीजिए

Subject: ENGLISH

1. Solve the first pre board Question Paper
2. Write the gist of five lessons of your main textbook.
3. Write one long answer question each from five stories of vistas
4. Write an article on Stress free education

Subject: BIOLOGY

1. WRITE SHORT NOTES ON SELECTABLE MARKERS
2. WRITE THE ADVANTAGES OF GM CROPS
3. DESCRIBE THE LIFE CYCLE OF MALARIA PARASITE
4. MENTION FOUR TYPES OF POPULATION INTERACTIONS WITH SUITABLE EXAMPLES

Subject: PHYSICS

- 1) SAMPLE PAPER – SOLUTIONS IN HOME WORK NOTE BOOK
- 2) ACTIVITIES 4 TO 7
- 3) COMPLETION OF INVESTIGATORY PROJECT GIVEN
- 4) COMPLETION OF EXPERIMENTS IN PRACTICAL RECORD

Subject: CHEMISTRY

1. What role does the molecular interaction play in a solution of alcohol and water?
2. A 5% solution (by mass) of cane sugar in water has freezing point of 271K. Calculate the freezing point of 5% glucose in water if freezing point of pure water is 273.15 K
3. Write the Nernst equation and emf of the following cells at 298 K:
 - (i) $\text{Mg(s)} | \text{Mg}^{2+}(0.001\text{M}) | | \text{Cu}^{2+}(0.0001\text{ M}) | \text{Cu(s)}$
 - (ii) $\text{Fe(s)} | \text{Fe}^{2+}(0.001\text{M}) | | \text{H}^+(1\text{M}) | \text{H}_2(\text{g})(1\text{bar}) | \text{Pt(s)}$
 - (iii) $\text{Sn(s)} | \text{Sn}^{2+}(0.050\text{ M}) | | \text{H}^+(0.020\text{ M}) | \text{H}_2(\text{g})(1\text{ bar}) | \text{Pt(s)}$
4. The conductivity of 0.20 M solution of KCl at 298 K is 0.0248 S cm^{-1} . Calculate its molar conductivity.
5. Mention the factors that affect the rate of a chemical reaction
6. Write down the electronic configuration of: (i) Cr^{3+} (ii) Cu^+ (iii) Co^{2+} (iv) Mn^{2+}
6. What is lanthanoid contraction? What are the consequences of lanthanoid contraction?
7. Using IUPAC norms write the formulas for the following:
 - (i) Tetrahydroxidozincate(II)
 - (vi) Hexaamminecobalt(III) sulphate
 - (ii) Potassium tetrachloridopalladate(II)
 - (vii) Potassium tri(oxalato)chromate(III)
 - (iii) Diamminedichloridoplatinum(II)
 - (viii) Hexaammineplatinum(IV)
 - (iv) Potassium tetracyanonickelate(II)
 - (ix) Tetrabromidocuprate(II)
 - (v) Pentaamminenitrito-O-cobalt(III)
 - (x) Pentaamminenitrito-N-cobalt(III)
8. $[\text{Cr}(\text{NH}_3)_6]^{3+}$ is paramagnetic while $[\text{Ni}(\text{CN})_4]^{2-}$ is diamagnetic. Explain why?
9. $[\text{Fe}(\text{CN})_6]^{4-}$ and $[\text{Fe}(\text{H}_2\text{O})_6]^{2+}$ are of different colours in dilute solutions. Why?

10. What is meant by the chelate effect? Give an example.

11. A reaction is second order with respect to a reactant. How is the rate of reaction affected if the concentration of the reactant is (i) doubled (ii) reduced to half ?

Subject: Computer Science with Python

1. Pre Board- 1 Question paper solutions
2. Write 1 to 20 programs in record.

Subject: Physical Education

Keywords(write in one sentence)

Organising, staffing, osteoporosis, amenorrhea, menarche, BMR, BMR formula, harvard step test formula, obesity table, standard bp value, BMI formula

2mark answers:

- 1.purpose of community sports
- 2.organisations supporting sports for disabled
- 3.platetap test and flimingo test
- 4.why glucose give when someone is unconscious

5mark answer questions:

- 1.classification of sports injuries
- 2.stickdiagrams and definition of 8 types of fractures
- 3.methods to develop static and dynamic strength
- 4.explain psychological attributes like mental imagery, goal setting and self esteem