

Dear Parent & Students,

Hope you all are fine. Since we all are at lockdown time, we planned for you to spend your time more effectively by doing the Holiday home work. (Do the home work of your next class i.e. class I students have to do Class II home work and so on.)

Class: II

English : complete cursive writing book.

Hindi: eghuks ds uke vkSj llrkg ds uke rFkk O;kdj.k ls fdUgh ikap ifjHkk"kkvksa dks ;kn djds fy[kksaA

Maths : learn and the tables 2 to 15. Learn and write the spelling of number names 1 to 100.

Evs. : Learn and write the spelling of weeks & months.

Make a model for different seasons.

Computer-

Do paste the pictures of monitor, keyboard, mouse, C.P.U., speaker, printer a chart paper.

Art :

Draw different type of flowers(lotus, rose, tulip, sunflower, and daisy) , colour it with crayon or pencil colour . (Do outline with black sketch pen)

Craft : Make an origami butterfly with craft papers.

Class: III

English:

Make the flower pot with flowers by waste material and describe the process in your sentences and underline the different kinds of nouns with different colours.

Hindi:

eghuks ds uke vkSj llrkg ds uke rFkk O;kdj.k ls fdUgh ikap ifjHkk"kkvksa dks ;kn djds fy[kksaA

Moral Science:

Write any one moral story and paste picture in the chart paper.

Mathematics-

1. Write numbers from 500 to 1000.
2. Write numbers names of 1 to 20.
3. Write multiplication table from 1 to 15 in notebook.

Social Studies:

Learn and write names of all the states of India along with their capital.

Computer-

1. Draw various input & output devices of computer in a chart paper.

Art :

Draw "National Flower and National Flag", colour it with crayon or pencil colour .(Do outline with black sketch pen)

Craft: Make an origami flower with craft papers.

Class: IV

English:

Read any 5 Panchtantra stories and describe about any 5 characters (1 from each story) that you liked in about 100-150 words each.

Hindi:

1- fdlh 5 izdkj ds ifjHkk"kkvksa dks ;kn djds pkVZ isij esa fy[kksA

2 i= ys[ku & izk/kkukpk;Z dks 5 fnu ds vodk'k ds fy;s izkFkZuk i= ;kn djds pkVZ isij esa fy[kksA भाषा के प्रकार उदाहरण सहित चित्र द्वारा दर्शाए।

Maths:

1. Learn and write table up to 2 to 20.
2. Making of brick with mud or clay.
3. Draw and name the following things of daily use.
4. Paste the pictures of curved edges and sharpened edges.
5. Shortest height and tallest person also with their height.

S.NO.	NAME OF THE FAMILY MEMBERS	THEIR HEIGHT

SCIENCE:

Q-1 Give TWO examples of the following and Paste/Draw their pictures on the chart paper.

- a) Plants that grow in plains.
- b) Plants that grow in desert.
- c) Plants that grow in hills.
- d) Plants that grow in marshy hills.
- e) Plants that grow in coastal area.
- f) Insectivorous plants.
- g) Plants that do not contain chlorophyll.

Social Studies:

1. Use waste material to make a bridge. (best out of waste)
2. Prepare a model of zoo in which birds and animals are exhibited.
3. Try to name and learn capitals of 29 states in India map.
4. Draw the pictures of animals which have the following features:-
(a)Ears like fan (b)Short tail (c)No teeth

Computer-

Paste the pictures of various field where computer are used from newspaper & magazines in a chart paper.

Art:

Draw a beautiful flower vase with flowers and colour it with crayon or pencil colour .(Do outline with black sketch pen)

Craft : Make a turtle with paper plate and decorate it with different coloured craft papers.

Moral science:

1. Write a letter to God telling him what you would like to do in your life?
2. The first help gives to someone who is hurt or ill is called "First Aid" . What will you do in the following situations ?
 1. Brother has fever a) Put under cold water
 2. A burn b) Wash with cold water
 3. A cut from metal c) Wash with dettol
 4. A minor /Small cut d) Get tetanus injection.
 5. Something inside your eyes e) Take his temperature.
3. Animal are the most beautiful creation of God. Draw any two animal pictures and colour it.

Class: V

English

Write an essay on "India in 2050" in (150-200 words) with the help of given ideas-

1. Mention about your age and kind of family (nuclear/joint)
2. Describe your city in 2050 (flying cars, air traffic, no plastic bags, e-offices space parks etc)
3. Describe a holiday on planet mars.
4. Mention which India would be better- present or India in 2050.
5. Mention the difference between present India and India in 2050.

(Note - Draw and color pictures of the same. Project to be done in a notebook)

Maths:

1. Learn and write table up to 2 to 20.
2. Make rangoli designs by joining dots on A4 size sheet.
3. Draw or paste top view and view of following things like cooker, staircase, chair, bottle, bus.
4. Draw five things which have similar halves.
5. Make a best out of waste. (Use shapes)

Science:

Q-1 What is dispersal of seeds? Explain the agents of dispersal such as Wind, Water, Animals and Explosion. Give their examples and Paste/Draw their pictures on chart paper.

Hindi :

1. भाषा के प्रकार उदाहरण सहित चित्र द्वारा दर्शाइए ।
2. लिपि क्या होती है? भारत में बोली जाने वाली भाषाओं के नाम तथा उनकी लिपियों के नाम लिखिए ।
3. मातृभाषा और राष्ट्रभाषा में अंतर स्पष्ट कीजिए ।
4. संयुक्ताक्षर तथा द्वित्व व्यंजन के पांच पांच उदाहरण लिखिए ।
5. 'र' के विभिन्न रूपों से पांच पांच शब्द बनाइए । उदाहरण गर्म , प्रश्न, राष्ट्र आदि ।
6. 'अनुस्वार', 'अनुनासिक' तथा 'विसर्ग' लगाकर पांच -पांच शब्द लिखिए । उदाहरण ,(हंस),(चांद) तथा (अतः)

Computer-

Make a chart paper for different generations of computer.

Art:

Draw a " beautiful landscape" outline with black colour and also colour it with pencil colour .

Craft : Make a photo frame with ice cream sticks and decorate it with required material.

Class VI:

English

1. Essay writing
 - a. Technology: Boon or Bane
 - b. Discipline in student life
2. Letter writing
 - a. Write a letter to your grandparents asking them to visit on your birthday.
 - b. Write a letter to the editor of a news paper complaining against the inconsiderate use of sound system in your neighbourhood beyond the decibel limits.
3. Diary entry * How did you spend a day during lockdown?
4. Prepare a chart with types of tenses, their structure with two examples of each.

Science: (Both the questions to be done on chart paper)

1. Prepare a chart to show various Vitamins and Minerals and the disorders caused by their deficiency.
2. List various types of nutrients and write the functions of each.

Maths

1. Write the successor of 44070 and 29999.
2. Write the predecessor of 208088 and 100000.
3. Write in Roman numeral (i) 79 (ii) 48
4. Write the name according to Indian system numeration (i) 8546283 (ii) 9989545
5. Estimate $730+998$
- 6 Place the commas and write the numerals (i) Nine crore five lakh forty one.
(ii) Twenty three lakh thirty thousand ten
7. Find the product by suitable rearrangement $2 \times 1768 \times 50$
8. Find the value $297 \times 17 + 297 \times 3$

Hindi:

1. भाषा के मुख्य रूप कौन-कौन से हैं? उदाहरण सहित लिखिए।
2. लिपि क्या है? उदाहरण सहित लिखिए।
3. व्याकरण क्या सिखाता है। इसके मुख्य अंगों के नाम उदाहरण सहित लिखिए।
4. हिंदी को राजभाषा कब घोषित किया गया? हिंदी दिवस कब मनाया जाता है?
5. द्वित्व व्यंजन एवं संयुक्ताक्षर से पांच पांच शब्द बनाइए।
6. 'ऋ' तथा 'र' की मात्राओं वाले पांच -पांच शब्द लिखिए।
7. पत्र -लेखन
 - अपने क्षेत्र की यातायात व्यवस्था को सुधारने हेतु परिवहन आयुक्त के नाम पत्र लिखिए।
 - अपने मित्र को अपनी बहन के विवाह पर आमंत्रित करते हुए पत्र लिखिए।
8. आपकी माता जी और सब्जी वाले के बीच हुए संवाद को अपने शब्दों में लिखिए।
9. निबंध लेखन(200 से 250 शब्दों में)
 - विद्यार्थी जीवन में संगति का प्रभाव
 - इंटरनेट

Social Studies:

Make a colourful project on chart paper.

1. On an outline map of India , mark the boundaries. Name the neighbouring countries and all the state. Colour the largest state blue and smallest state yellow.
2. Choose one of the state of Himalayan region, collect pictures and important facts about it.

Computer-

- Q1. What is MS-Word?
- Q2. Draw and label all the components of MS-Word windows.
- Q3. Write about each components of MS-Word?
- Q4. Write and learn any five shortcut keys used in MS-Word?

Submit in a file

Art:

Draw "beautiful scenery /picture "with pencil shade using 2B, 4b and 6B pencil , also shows the different variations .

Craft: Make different coloured lavender flowers with craft papers .

Class: VII

English:

1. Enrich your vocabulary with the help of dictionary navigation. Collect 25-30 words (verb /adjective) with their meaning. Write them in your notebook and learn.
2. Draft a poster writing for the awareness of using mask and hand sanitizer against fighting with coronavirus.
3. Write a short story on the topic - 'Family matters a lot' in 200 words.
4. You're Anurag/ Anuradha of city public school, Noida, on the basis of your experience of 21 days of national lockdown because of Covid-19. Make a diary entry word limit 200 words.

Science: (Both the questions to be done on chart paper)

1. Explain the different modes of nutrition in plants with examples and diagrams.

2. Explain the digestion in humans. Draw the diagram of the digestive system of human.
3. Give five examples of each
 - 1) Carnivore
 - 2) herbivores
 - 3) Omnivore
4. Draw a labelled diagram to show the process of photosynthesis
5. Write the causes and effects of air and water pollution

Social Studies:

1. Draw three layers of Earth and write importance of them.
2. Make an album of pictures of various historical monuments of India and write each one of them.

GENERAL KNOWLEDGE

1. Write the names of 50 Scientists and their Inventions on the chart paper.
2. Write the names of 25 Famous Books and their Authors.

MATHS

Part A

1. Write and learn the square and square roots from 2 to 20
2. Write the different types of properties with example given in chapter 1 (Integers)
3. Write and learn the formula of profit and loss.
4. Write and learn table from 2 to 20.

Part B

Solve the Worksheet:

1. Complete the following:
 - a) $5 \div 20 = \dots$
 - b) $10 \div 20 = \dots$
2. Solve the following:
 - a) $16 \div 2 = \dots$ and $62 \times 1/2 = \dots$
 - b) $18 \div 1/2 = \dots$ and $19 \times 2 = \dots$
3. Fill in the blanks:
 - a) $6\text{cm} = \dots \text{m}$
 - b) $1.23\text{kg} = \dots \text{g}$
 - c) $\dots \times 1000 = 6.3$
 - d) $78\text{mm} = \dots \text{km}$
4. State true or false:
 - a) $17 + 15 = 15 + (-17)$
 - b) $64 - (+64) = 0$
 - c) $[(-17) + 8] + 20 = [8 + (-17)] + 20$
 - d) $(-54) + 0 =$
5. Fill in the boxes with appropriate answers:

s.no.		Base	Exponent	Expanded form	Value
a	5^4				
b	2^3				
c	6^5				

Hindi:

1. संविधान द्वारा मान्यता प्राप्त 22 भाषाओं के नाम लिखिए।
2. भाषा किसे कहते हैं? भाषा के रूपों के बारे में लिखिए।
3. भाषा और बोली में अंतर स्पष्ट कीजिए।
4. संयुक्त व्यंजन, द्वित्व व्यंजन तथा संयुक्ताक्षर से 5 नए नए शब्द लिखिए।
5. संधि के कितने भेद हैं? सभी के दो दो उदाहरण लिखिए।
6. शब्द किसे कहते हैं? उनके भेदों के नाम लिखते हुए उनके दो दो उदाहरण दीजिए।
7. पत्र -लेखन
 1. अपने इलाके की गंदगी के विषय में जानकारी देते हुए आवश्यक कार्यवाही करने हेतु भोपाल नगर निगम के मुख्य स्वास्थ्य अधिकारी को पत्र लिखिए।
 2. ग्रीष्मकालीन अवकाश में अपने मित्र को अपने घर आमंत्रित करते हुए निमंत्रण -पत्र लिखिए।
8. संवाद- लेखन
 - पाठ के संबंध में अध्यापिका तथा छात्रा में संवाद।
9. निबंध- लेखन (200-250) शब्दों में लिखिए।
 1. समय का सदुपयोग
 2. प्राकृतिक आपदाएं

Computer:

- Q1. What is MS-Excel?
- Q2. Write the different types of charts used in MS-Excel?
- Q3. Draw and write the chart components?

Submit in a file

Art:

Draw "landscape" using water colour.

Craft: Make "pen holder", decorate it with required materials.

Class: VIII

English:

1. Enrich your vocabulary with the help of dictionary navigation. Collect 25-30 words (verb /adjective) with their meaning. Write them in your notebook and learn.
2. Draft a poster writing for the awareness of using mask and hand sanitizer against fighting with corona virus.
3. Write a short story on the topic - 'Family matters a lot' in 200 words.
4. You're Anurag/ Anuradha of city public school, Noida, on the basis of your experience of 21 days of national lockdown because of Covid-19. Make a diary entry word limit 200 words.

Science: (Both the questions to be done on chart paper)

1. Write a short paragraph on advantages and disadvantages of Microorganisms.
2. Explain the different steps of Crop Production. Draw the diagrams.
3. Write the use of common metals and non-metals in daily life.

Social Studies:

1. Collect samples of different types of soil and compare their texture.
2. Make a project explaining the nature and objectives of the constitution of India.
3. Write the causes of water and air pollution .write at least 5 points to reduce it.

Maths:

1. Find three rational numbers between - 6 and - 5
2. Divide $5/13$ $10/3$
3. The product of two numbers is $28/121$. If one of the number is $2/3$, find the other number.
4. Represent $3/7$ on number line.
5. Find x (i) $x+5=9$. (ii) $2x +5 =29$
6. Find three rational number equivalent to $3/5$.
7. Find product $(2a-b)(4a-b)$
8. Express 6:25 in percentage.
9. Add $5/8 + 3/10$
10. Subtract $8/3$ from $13/7$
11. Write the formulae to find the Area of;
(i) Triangle (ii) Square (iii) Rectangle (iv) Parallelogram (v) Circle (vi) Rhombus
12. Write the names of different kinds of quadrilaterals and write any two properties for each.
13. Find the value of m if
i) $5m + 8 =13$ ii) $9m - 5 =13$

Hindi

1. व्याकरण किसे कहते हैं? इसके कितने अंग होते हैं? उदाहरण सहित बताइए।
2. आगत ध्वनियां कौन-कौन सी है तथा कहां से आई है?
3. शब्द किसे कहते हैं ?उसका वर्गीकरण किस प्रकार से किया गया है? उनके नाम लिखकर दो- दो उदाहरण दीजिए।
4. उपसर्ग किसे कहते हैं? हिंदी भाषा में प्रयुक्त उपसर्ग के सभी भेदों के पांच पांच उदाहरण लिखिए।
5. प्रत्यय किसे कहते हैं? हिंदी भाषा में प्रयुक्त प्रत्यय के सभी वेदों के पांच पांच उदाहरण लिखिए।
6. समास किसे कहते हैं? उसके उसके भेदों के नाम लिखते हुए पांच पांच उदाहरण लिखिए।
7. पत्र -लेखन
 - अपने क्षेत्र के जिला अधिकारी को पत्र लिखकर क्षेत्र में होने वाली पेड़ों की कटाई की ओर ध्यान आकर्षित कीजिए।
 - अपने पिताजी को रुपए मंगवाने के लिए पत्र लिखिए।
8. प्रतिवेदन -लेखन
 - विद्यालय में आयोजित बाल मेले पर प्रतिवेदन तैयार कीजिए।
9. निबंध -लेखन (200-250 शब्दों में)
 - धर्म और विज्ञान
 - देश का निर्माण एवं युवा वर्ग

Computer:

On an MS-word document, copy any article from the daily newspaper and make the following changes in it:

- Change the color of the text.
- Add a background color to the first paragraph of the article.
- Change the font style of the entire article.
 - Insert header and footer in the document.
 - The footer should contain the page number.
- Header should contain the date.
- **Take the printout and submit in a file.**

Art:

Draw “village composition “using water colour .

Craft: Make “ship” with ice cream sticks.

Class: IX

English:

1. Enrich your vocabulary with the help of dictionary navigation. Collect 30-40 words (verb /adjective) with their meaning and make appropriate sentences. Write them in your notebook and learn.
2. Write an article on the ‘role of medical science’ for serving humanity in 250 words.
3. Last night you had a talk with your uncle and his family who is staying in Australia. Describe the panic experiences in your diary, how they stayed safe in 200 words.
4. Write a story on the topic - ‘there is no place for fear’ in 250 words.

Maths:

1. Represent $\sqrt{5}$ on the number line.
2. Write in expanded form: a) $(2x + 3y)^3$ b) $(3x-2y)^3$ c) $(7a+5b)^3$
3. Find three rational numbers between 2 and 3.
4. Write the following in decimal form and say what kind of decimal expansion each
(i) $36/100$ (ii) $3/13$. (iii) $1/11$
5. Evaluate: a) $(1002)^3$ b) $(999)^3$ c) $(598)^3$
6. Simplify the following: (i) $(5+\sqrt{7})(2 + \sqrt{5})$
7. Use factor theorem to determine that $x-3$ is factor of $x^3-4x^2+x +6$

Science:

PHYSICS

Q.1 Draw a well labeled diagram of human ear.

Q.2 Explain the following terms

- i) Frequency ii) Amplitude iii) Loudness iv) Time Period v) Vibration

Q.3 (a) What is a Force? Describe and Distinguish between Contact and non-Contact force with example.

(b) What are the effects of application of force on an object? Explain.

Q.4 Describe the state of motion of an object. How many types of motions are their.

Q.5 Define Pressure. Write its formula and S.I unit.

BIOLOGY

1 From your previous class knowledge write the explanation of following topics –

- Greenhouse effect
- Global warming
- Ozone layer depletion

2 Draw labelled diagram of Plant cell and Animal cell.

CHEMISTRY

1 Write the names, symbol atomic number and mass number of the first 20 elements in your copy (i.e hydrogen to calcium) learn them also.

2 Find out and write the definition of-

- Matter
- Atom
- Molecule
- Element
- Compound
- Mixture

Hindi

- हिंदी भाषा में उपसर्ग कितने भेद होते हैं? भेदों के नाम लिखकर उनके पांच पांच उदाहरण दीजिए।
- हिंदी भाषा में प्रत्यय के कितने भेद होते हैं? वेदों के नाम लिखकर उनके पांच पांच उदाहरण लिखिए।
- पांच ऐसे शब्द लिखिए जिनमें दो दो उपसर्ग का प्रयोग हुआ हो।
- पांच ऐसे शब्द लिखिए जिसमें उपसर्ग और प्रत्यय दोनों का प्रयोग हुआ हो।
- समाज किसे कहते हैं? वेदों के नाम लिखकर सभी के पांच पांच उदाहरण लिखिए।
- वाक्य किसे कहते हैं? वेदों के नाम बताइए तथा अर्थ के आधार पर वाक्य के कितने भेद होते हैं? दो दो उदाहरण दीजिए।
- सूचना –लेखन ग्रीष्मावकाश में नवी एवं दसवीं के छात्रों के लिए भ्रमण का आयोजन।
- पत्र –लेखन
 - आप 1 महीने से अधिक समय तक विद्यालय नहीं आए। कक्षा अध्यापक ने आपका नाम काट दिया है। पुनः प्रवेश पाने के लिए अपने विद्यालय के प्रधानाचार्य को प्रार्थना पत्र लिखिए।
 - अपने बड़े भाई के विवाह के अवसर पर अपने मित्र को आमंत्रित करते हुए पत्र लिखिए।
- निबंध लेखन (200-250 शब्दों में)
 - विनाश का संदेश लाती प्राकृतिक आपदाएं
 - सर्व शिक्षा अभियान

Computer:

Q1. Define Network? What are the three types of Network? Explain briefly?

Q2. What do you mean by Network topologies? Explain three types of Network topologies?

Q3. Write about the hardware components needed to connect the systems in a Network? Paste their pictures also.

Submit in a file

Class: X

English:

1. Enrich your vocabulary with the help of dictionary navigation. Collect 30-40 words

(verb /adjective) with their meaning and make appropriate sentences. Write them in your notebook and learn.

2. Write an article on the 'role of medical science' for serving humanity in 250 words.

3. Last night you had a talk with your uncle and his family who is staying in Australia. Describe the panic experiences in your diary, how they stayed safe in 200 words.

4. Write a story on the topic - 'there is no place for fear' in 250 words.

Maths

Q1. Using Euclid's division algorithm, find the HCF of the following.

(a) 1288, 576 (b) 155, 1305 (c) 240, 1024

Q2. If the HCF of 210 and 55 is expressible in the form $210 \times 5 + 55y$, find y .

Q3. Find the largest number which divides 245 and 1029 leaving remainder 5 in each case.

Q4. Using prime factorization, find the HCF and LCM of 72, 126 and 168. Also show that $\text{HCF} \times \text{LCM} \neq$ product of the three numbers.

Q5. The HCF of two numbers is 145 and their LCM is 2175. If one number is 725, find the other.

Q6. The product of two numbers is 20736 and their HCF is 54, find their LCM.

Q7. After how many places of decimals, the decimal expansion of the rational number will terminate?

Q8. State the fundamental theorem of Arithmetic.

Science:

CHEMISTRY :

1 having the knowledge of valencies in IX class right to frame 20 formulas (e.g.NaCl) write their names also (NaCl -sodium chloride)

2 Make a list of 10 acids and bases used in your daily life e.g.Acetic acid

BIOLOGY :

1 from chapter 5 life process draw the diagram of-

- Human digestive system
- Human respiratory system
- Human heart
- Human excretory system

In practice copy / science copy

2 from study of chapter our environment write notes on

- Sustainable development - meaning and how to obtain it?
- Importance and conversion of forest .

Hindi:

- रचना के आधार पर वाक्य के कितने भेद होते हैं? भैरव के नाम लिखते हुए उनके पांच पांच उदाहरण लिखिए।
- वाच्य किसे कहते हैं? उसके भेदों के नाम लिखकर उनके पांच पांच उदाहरण लिखिए।
- 'संज्ञा' एवं 'सर्वनाम' के वाक्यों का पद परिचय दीजिए। (पांच पांच वाक्य उदाहरण में लिखिए)
- रस किसे कहते हैं? घास के नाम तथा उनके स्थाई भाव उदाहरण सहित लिखिए।
- विज्ञापन- लेखन
 - आपके शहर में विश्व पुस्तक मेले का आयोजन होने जा रहा है। इसके लिए 25 से 50 शब्दों में विज्ञापन तैयार कीजिए।
 - आपने एक बुटीक खोला है। उसके लिए विज्ञापन तैयार कीजिए।
- पत्र लेखन
 - आपके मोहल्ले के पार्क पर कुछ असामाजिक तत्वों ने कब्जा कर रखा है। अपने मोहल्ले के पहाड़ को असामाजिक तत्वों से मुक्त कराने की प्रार्थना करते हुए अपने क्षेत्रीय थाना अध्यक्ष को पत्र लिखिए।
 - पिताजी से रुपए मंगवाने के लिए पत्र लिखिए।
- निबंध लेखन (200 से 250 शब्दों में)
 - शिक्षा और व्यवसाय
 - आपदा प्रबंधन

Social Studies:

1. Prepare a list of resources found in your state and also identify the resources that are important and deficit in your state (Make in a file).

ECONOMICS

Q.1 .Give two developmental goals for-

- 1) Urban unemployed youth.
- 2) A boy from a rich urban family.

Q.2 .What is the Per Capita Income?Why is it better than total income for comparing countries?

Q.3.What is Human Development Report? How it is different from UNDP Report?

Q.4. What do you understand by Sustainability of development?

Q.5.What is Public Distribution System?

Q.6. Distinguish between Renewable and Non-Renewable resources.

Q.7.Name the state with-

- (a) Lowest Infant Mortality Rate
- (b) Highest Per Capita Income
- (c) Highest Literacy Rate

Q.8.Literacy rate measures the proportion of literate population in which age group?

Q.9.What is Body Mass Index (BMI)? How is it calculated?

Q.10. Apart from income what are the goals people look for as important aspirations of their lives?

COMPUTER

Q1. Given the following spreadsheet, Write the appropriate Formula / Expression / Function to be used for (a) to (e).

	A	B	C	D	E
1					
2	Departmental Store				
3	ProdCode	PName	QTY	PRICE	AMOUNT
4	P101	BAT	55	1250	
5	P102	RACKET	40	700	
6	P103	BALL	65	150	
7	P104	GLOVES	50	300	
8		TOTAL			
9		AVERAGE			
10		MAXIMUM			

- a) Write formula to calculate the Total Qty (C4:C7)) in cell C8
- b) Write the feature used for arranging the Price from Highest to Lowest.
- c) To find the Product with Maximum Price to be written in Cell D10
- d) To find the Average Qty to be written in cell C9
- e) Write formula to calculate the Total Amount in cell E8

Q2. Write & learn the different views in MS-Excel?

Q3. Write the difference between the sorting and filtering in Excel?

Submit in a file

Class-XII

Class-XII B

English

1. Enrich your communication with the help of phrases and idioms. Write 30-40 phrases with their meanings.

2. Write an article on the 'Disaster management in India' with special reference to the Covid-19 and it's last longing result in 300 words..

3. Collect 21 days of National lockdown's information and prepare report writing, with some specific examples in 300 words.

4. Write a story on the topic 'Evil allures but God endures' in 300 words.
5. You're the president of a school theatre club. Your club is organising a play to help the victims of Corona virus. Design a poster informing the students about this play, insert necessary details.

BUSINESS STUDIES-

With the help of hints given below Prepare a project report on Hindustan Uniliver Limited

1. Introduction
2. History and formation
3. Various brands of products manufactured by HUL
4. Annual sales and turnover of HUL
5. Major competitors of HUL
6. Challenges faced and growth all over these years
7. Conclusion (estimated growth in future)

ECONOMICS

- Q.1 .What is the difference between Micro-economics and Macro-economics?
- Q.2 .What are the important features of a Capitalist Economy?
- Q.3.Describe the four major sectors in an economy according to the macro-economic point of view.
- Q.4. Describe the Great Depression of 1929.
- Q.5.Explain-
 - a) Final Good (b) Consumption Good (c) Capital Goods (d) Consumer Durables (e) Intermediate Goods (f) Stocks and Flows (g) Gross Investment
 - (h) Depreciation
- Q.6. Write down the three methods of calculating the GDP of a country. Also briefly explain why each of these should give us the same value of GDP.
- Q.7.Explain the following basic National Income Aggregates-
 - A) Gross Domestic Product at Market Price (GDPMP).
 - B) Gross Domestic Product at Factor Cost (GDPFC)
 - C) Net Domestic Product at Market Price (NDPMP).
 - D) Net Domestic Product at Factor Cost (NDPFC)
 - E) Gross National Product at Market Price (GNPMP).
 - F) Gross National Product at Factor Cost (GNPFC)
 - G) Net National Product at Market Price (NNPMP).
 - H) Net National Product at Factor Cost (NNPFC) or National Income.
- Q.8. Write down some of the limitations of using GDP as an Index of Welfare of a Country.

ACCOUNTANCY

- Q.1 .What do you mean by Not for Profit Organizations and what are its characteristics?
- Q.2 .How do the Not for Profit Organizations keep their Accounting records?
- Q.3.What is Receipts and Payments Account? What are its characteristics? Also give specimen.
- Q.4.What is Income and Expenditure Account? What are the steps involved in preparation of Income and Expenditure Account?
- Q.5.What is the difference between Income and Expenditure Account & Receipts and Payments Account?
- Q.6. Write the steps involved in preparation of Balance Sheet in Not for Profit Organizations? Give the performance of the Balance Sheet?
- Q.7.What is Subscription? How it is calculated?

- Q.8. What is Partnership? What are its chief characteristics?
- Q.9. What is Partnership Deed? What are its main contents?
- Q.10. Discuss the main Provisions of the Indian Partnership Act 1932 that is relevant to Partnership Accounts if there is no Partnership Deed.
- Q.11. How are capital accounts of Partners maintained? Explain both the methods with Proforma?
- Q.12. What is the difference between Fixed and Fluctuating Capital Accounts?
- Q.13. What is the Profit and Loss Appropriation Account? What are the Journal entries for preparation of Profit and Loss Appropriation Account? Give the proforma also.
- Q.14. Illustrate how interest on drawings will be calculated under various situations?
- Q.15. What do you understand by Guarantee of Profit to a Partner?

Class-XII A

English

1. Enrich your communication with the help of phrases and idioms. Write 30-40 phrases with their meanings.
2. Write an article on the 'Disaster management in India' with special reference to the Covid-19 and its last longed result in 300 words..
3. Collect 21 days of National lockdown's information and prepare report writing, with some specific examples in 300 words.
4. Write a story on the topic 'Evil allures but God endures' in 300 words.
5. You're the president of a school theatre club. Your club is organising a play to help the victims of Corona virus. Design a poster informing the students about this play, insert necessary details.

Maths:

- Q1. Define relation and function.
- Q2. Explain reflexive, symmetric and transitive relation with example.
- Q3. Show that the relation R in the set $\{1,2,3\}$ given by $R=\{(1,2),(2,1)\}$ is symmetric but neither reflexive nor transitive.
- Y be a function defined as $f(x) = 4x + 3$ where $Y = \{y \in \mathbb{N} : y = 4x + 3 \text{ for some } x \in \mathbb{N}\}$. Show that f is invertible. And find the inverse.
- Q4. Let $f : \mathbb{N} \times \mathbb{N} \rightarrow \mathbb{N}$ be a function defined as $f(x, y) = 4x + 3y$. Show that f is invertible. And find the inverse.
- Q5. An operation $*$ is defined on the sets of positive rational numbers \mathbb{Q}^+ , given by $a * b = \frac{ab}{2} \forall a, b \in \mathbb{Q}^+$. Show that (i) $*$ is a binary operation on \mathbb{Q}^+ , (ii) find the identity element for $*$ in \mathbb{Q}^+ . (iii) Check whether $*$ is commutative (iv) Check whether $*$ is associative
- Q6. Give an example of a relation which is reflexive and transitive but not Symmetric.
- Q7. Let $A = \{1,2,3\}$, $B = \{4,5,6,7\}$ and let $f = \{(1,4) (2,5)(3,6)\}$ be a function from A to B. Show that f is one - one.

CHEMISTRY

Q.1 CHOOSE THE CORRECT OPTIONS:

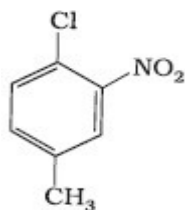
1. Which of the following is the correct IUPAC name?

- (i) 3-Ethyl-4, 4-dimethylheptane (ii) 4,4-Dimethyl-3-ethylheptane
 (iii) 5-Ethyl-4, 4-dimethylheptane (iv) 4,4-Bis(methyl)-3-ethylheptane

2. The IUPAC name for $\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_2-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$ is _____.

- (i) 1-hydroxypentane-1,4-dione (ii) 1,4-dioxopentanol (iii) 1-carboxybutan-3-one (iv) 4-oxopentanoic acid

3. The IUPAC name for



- (i) 1-Chloro-2-nitro-4-methylbenzene (ii) 1-Chloro-4-methyl-2-nitrobenzene
 (iii) 2-Chloro-1-nitro-5-methylbenzene (iv) m-Nitro-p-chlorotoluene

4. Electro negativity of carbon atoms depends upon their state of hybridisation. In which of the following compounds, the carbon marked with asterisk is most electronegative?

- (i) $\text{CH}_3-\text{CH}_2-\text{*CH}_3-\text{CH}_3$ (ii) $\text{CH}_3-\text{*CH}=\text{CH}-\text{CH}_3$
 (iii) $\text{CH}_3-\text{CH}_2-\text{C}\equiv\text{*CH}$ (iv) $\text{CH}_3-\text{CH}_2-\text{CH}=\text{*CH}_2$

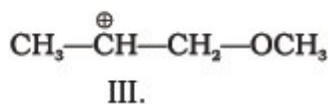
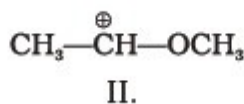
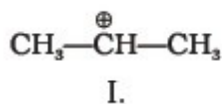
5. In which of the following, functional group isomerism is not possible?

- (i) Alcohols (ii) Aldehydes (iii) Alkyl halides (iv) Cyanides

6. The principle involved in paper chromatography is

- (i) Adsorption (ii) Partition (iii) Solubility (iv) Volatility

7. What is the correct order of decreasing stability of the following cations.

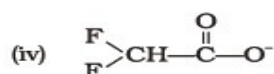


- (i) II > I > III (ii) II > III > I (iii) III > I > II (iv) I > II > III

8. Correct IUPAC name for $\text{H}_3\text{C}-\underset{\text{C}_2\text{H}_5}{\text{CH}}-\underset{\text{C}_2\text{H}_5}{\text{CH}}-\text{CH}_3$ is _____.

- (i) 2-ethyl-3-methylpentane (ii) 3,4-dimethylhexane (iii) 2-sec-butylbutane (iv) 2,3-dimethylbutane

9. Ionic species are stabilised by the dispersal of charge. Which of the following carboxylate ion is the most stable?



10. Covalent bond can undergo fission in two different ways. The correct representation involving a heterolytic fission of $\text{CH}_3\text{—Br}$ is

- (i) $\overset{\curvearrowright}{\text{C}}\text{H}_3\text{—Br} \longrightarrow \overset{\oplus}{\text{C}}\text{H}_3 + \text{Br}^{\ominus}$
 (ii) $\text{CH}_3\text{—}\overset{\curvearrowleft}{\text{B}}\text{r} \longrightarrow \overset{\oplus}{\text{C}}\text{H}_3 + \text{Br}^{\ominus}$
 (iii) $\text{CH}_3\text{—}\overset{\curvearrowleft}{\text{B}}\text{r} \longrightarrow \overset{\ominus}{\text{C}}\text{H}_3 + \text{Br}^{\oplus}$
 (iv) $\overset{\curvearrowright}{\text{C}}\text{H}_3\text{—}\overset{\curvearrowleft}{\text{B}}\text{r} \longrightarrow \overset{\cdot}{\text{C}}\text{H}_3 + \overset{\cdot}{\text{B}}\text{r}$

11. The addition of HCl to an alkene proceeds in two steps. The first step is the attack of H^+ ion to $>\text{C}=\text{C}<$ portion which can be shown as

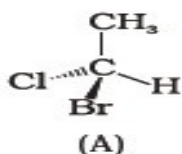
- (i) $\text{H}^+ \curvearrowright >\text{C}=\overset{\curvearrowleft}{\text{C}}<$
 (ii) $\text{H}^+ \curvearrowleft >\text{C}=\text{C}<$
 (iii) $\text{H}^+ \curvearrowright >\text{C}=\text{C}<$
 (iv) All of these are possible

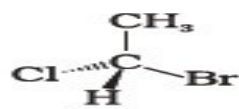
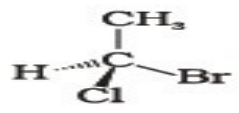
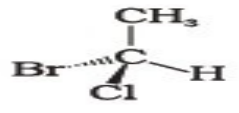
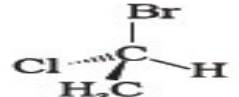
Q.2 In the following questions two or more options may be correct.

1. Which of the following compounds contain all the carbon atoms in the same hybridisation state?

- (i) $\text{H—C}\equiv\text{C—C}\equiv\text{C—H}$ (ii) $\text{CH}_3\text{—C}\equiv\text{C—CH}_3$ (iii) $\text{CH}_2=\text{C}=\text{CH}_2$ (iv) $\text{CH}_2=\text{CH—CH}=\text{CH}_2$

2. In which of the following representations given below spatial arrangement of group/atom different from that given in structure 'A'?

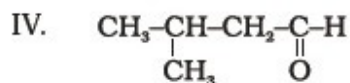
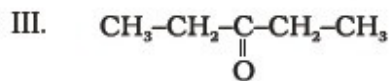
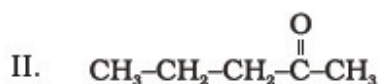
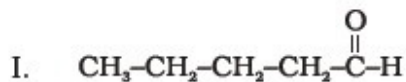


- (i) 
- (ii) 
- (iii) 
- (iv) 

3. Electrophiles are electron seeking species. Which of the following groups contain only electrophiles?

- (i) $\text{BF}_3, \text{NH}_3, \text{H}_2\text{O}$
 (ii) $\text{AlCl}_3, \text{SO}_3, \text{NO}_2^+$
 (iii) $\text{NO}_2^+, \text{CH}_3^+, \text{CH}_3\text{—}\overset{\cdot}{\text{C}}=\text{O}$
 (iv) $\text{C}_2\text{H}_5^-, \overset{\cdot}{\text{C}}_2\text{H}_5, \text{C}_2\text{H}_5^+$

4. Consider the following four compounds for answering questions 19 and 20.



5. Which of the following pairs are position isomers?

- (i) I and II (ii) II and III (iii) II and IV (iv) III and IV

6. Which of the following pairs are not functional group isomers?

- (i) II and III (ii) II and IV (iii) I and IV (iv) I and II

7. Nucleophile is a species that should have

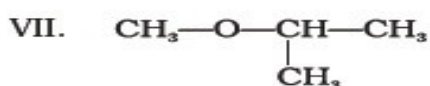
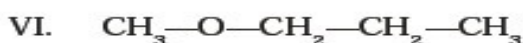
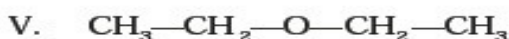
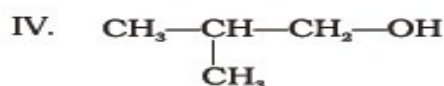
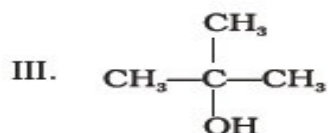
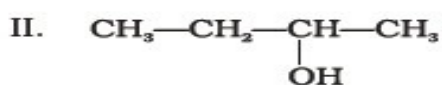
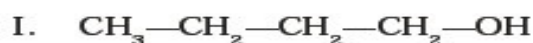
- (i) a pair of electrons to donate (ii) positive charge (iii) Negative charge (iv) electron deficient species

8. Hyperconjugation involves delocalisation of _____.

- (i) Electrons of carbon-hydrogen σ bond of an alkyl group directly attached to an atom of unsaturated system.
 (ii) Electrons of carbon-hydrogen σ bond of alkyl group directly attached to the positively charged carbon atom.
 (iii) π -electrons of carbon-carbon bond (iv) Lone pair of electrons

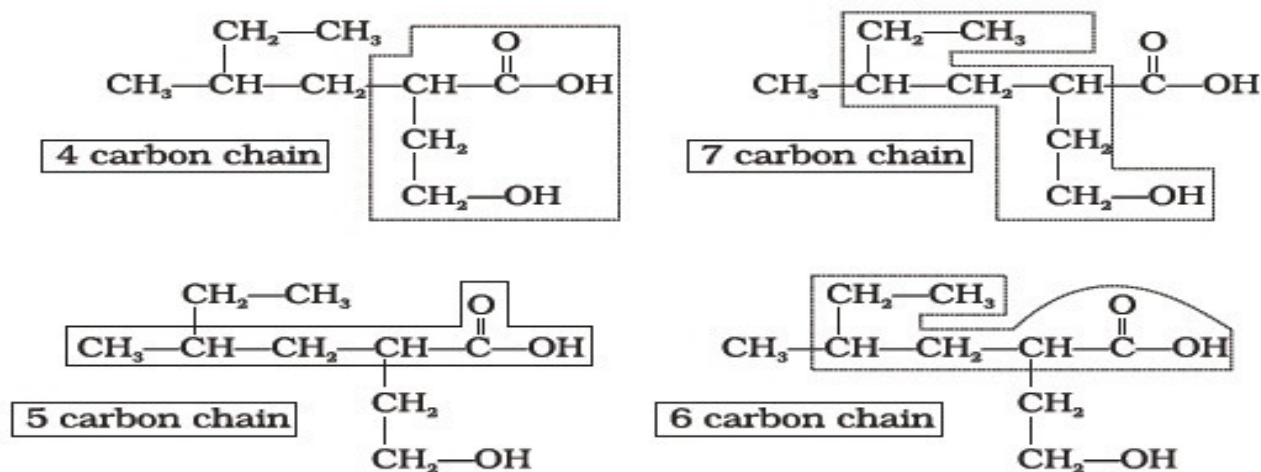
Q.3 Short Answer Type Questions

Consider structures I to VII and answer the questions 23–26.



1. Which of the above compounds form pairs of metamers?

- Identify the pairs of compounds which are functional group isomers.
- Identify the pairs of compounds that represents position isomerism.
- Identify the pairs of compounds that represents chain isomerism.
- What is the hybridisation of each carbon in $H_2C = C = CH_2$.
- Which of the following selected chains is correct to name the given compound according to IUPAC system?



- Write structural formulae for compounds named as-
 (a) 1-Bromoheptane (b) 5-Bromoheptanoic acid
- Identify the most stable species in the following set of ions giving reasons :
 (i) $\overset{+}{C}H_3$, $\overset{+}{C}H_2Br$, $\overset{+}{C}HBr_2$, $\overset{+}{C}Br_3$
 (ii) $\overset{-}{C}H_3$, $\overset{-}{C}H_2Cl$, $\overset{-}{C}HCl_2$, $\overset{-}{C}Cl_3$

Q.4 MATCHING TYPE QUESTIONS

1. Match the type of mixture of compounds in Column I with the technique of separation/purification given in Column II.

Column I	Column II
(i) Two solids which have different solubilities in a solvent and which do not undergo reaction when dissolved in it.	(a) Steam distillation
(ii) Liquid that decomposes at its boiling point	(b) Fractional distillation
(iii) Steam volatile liquid	(c) Simple distillation
(iv) Two liquids which have boiling points close to each other	(d) Distillation under reduced pressure
(v) Two liquids with large difference in boiling points.	(e) Crystallisation

2. Match the terms mentioned in Column I with the terms in Column II.

Column I	Column II
(i) Carbocation	(a) Cyclohexane and 1-hexene
(ii) Nucleophile	(b) Conjugation of electrons of C-H σ bond with empty <i>p</i> -orbital present at adjacent positively charged carbon.
(iii) Hyperconjugation	(c) sp^2 hybridised carbon with empty <i>p</i> -orbital
(iv) Isomers	(d) Ethyne
(v) <i>sp</i> hybridisation	(e) Species that can receive a pair of electrons
(vi) Electrophile	(f) Species that can supply a pair of electrons

3. Match Column I with Column II.

Column I	Column II
(i) Dumas method	(a) $AgNO_3$
(ii) Kjeldahl's method	(b) Silica gel
(iii) Carius method	(c) Nitrogen gas
(iv) Chromatography	(d) Free radicals
(v) Homolysis	(e) Ammonium sulphate

4. Match the intermediates given in Column I with their probable structure in Column II.

Column I	Column II
(i) Free radical	(a) Trigonal planar
(ii) Carbocation	(b) Pyramidal
(iii) Carbanion	(c) Linear

Q.5 FIND THE MOLECULAR FORMULAE OF THE FOLLOWING COMPOUNDS

1. Urea (NH_2CONH_2)
2. Water (H_2O)
3. Sugarcane/Sucrose ($C_{12}H_{22}O_{11}$)
4. Glucose ($C_6H_{12}O_6$)
5. Ammonia (NH_3)
6. Chloroform ($CHCl_3$)
7. Carbon tetra chloride (CCl_4)
8. Sodium Carbonate (Na_2CO_3)

Q.6 Learn and write the atomic number, atomic mass and electronic configuration of the following

s-block elements, p-block elements and Scandium (Sc), Titanium (Ti), Vanadium (V), Chromium (Cr), Manganese (Mn), Iron (Fe), Cobalt (Co), Nickel (Ni), Copper (Cu) and Zinc (Zn).

Q.7 Write the structure of following compounds

1. 5-Ethyl-3-methyl octane
2. But-2-en-1-oic acid
3. 3,5,5-Trimethylhexane-2,4-diol

4. Pent-3-en-1-yne
5. 3-chloroprop-1-ene
6. 2,3-Dibromo-1-chloro-2-methylpentane
7. 2-chloro-3-hydroxypropanal
8. Propane-1,2,3-triol
9. 2-Chlorohex-5-yn-1-al
10. 2-Hydroxypropanoic acid