**Note: In case of Video sassignments, time limit is 3 Minutes and it is to be sent to your respective Subject Teacher on the WhatsApp.**

**(Vacation Homework has to be done in the respective subject's fair copy)**

## ENGLISH

Q1 Find out the countable and uncountable nouns-

Charles Darwin has made a number of contributions to the theory of evolution .He proved that all species have descended from common ancestors.  Darwin's discoveries also explain the reason behind the diversity of this planet .During his five-year-old voyage, Darwin collected many fossils which helped him provide scientific evidence for his theories. However, he almost missed going to the voyage. Robert Darwin, his father objected to the journey saying it was a waste of time. After a lot of persuasion, he is reluctantly granted permission. And the rest is history!

Q2 Complete this extract from a travel article on Delhi with the correct prepositions-

Situated on the banks___ the Yamuna Delhi attracts tourist's ___ all over the world. Divided ___ old Delhi and New Delhi, the city is a perfect fusion ___ history and modernity. Old Delhi is filled___ Mughal monuments , most of which are over 500 years old. On the other hand, New Delhi is full ___ trendy buildings. Did you know, that New Delhi's famous Firoz Shah Kotla cricket stadium was built___ 1883 , making it the second oldest cricket ground___ India? And the Red fort ___ old Delhi constructed___ Mughal emperor Shah Jahan, has a tiny mall inside it.

Q3  Essay writing-
India is a fascinating country with diverse cultures, languages, regions, food, clothes and way of living.
Write a descriptive essay on the cultural diversity of India.
HINT- You can consider these points while writing your essay-
* India is diverse for its physical, cultural, linguistic, social and religious diversity.
*Each religion / state is different from the other for its culture, attires and food habits
*Still, Unity in diversity in true sense.

Q4. Read a Novel written by any one of the following writers.
Write about the author and the summary of the story.
1. Jane Austen
2. Charles Dickens
3. Leo Tolstoy
4. William Shakespeare.

Q5 Informal Letter-
1. Write a letter to your friend advising him to take care of himself and his family during this pandemic.
2. Write a letter to your friend confessing your mistakes and seeking forgiveness.

Q6 NOTE- Make a video on any one of the topics given below. (Maximum 3 minutes)
      Send it to your teacher on WhatsApp.

- Explaining any one of 'The Parts Of Speech'.
- Interviewing a member of your family (Including maids/house help)
- Select any of the Poems of your last year's book ad compose a song of it.

# MATHS

- **Note: Q.1 & 2 given for practice is based on Chapter 1& 2.**
- **Q.no.3, 4 & 5 are based on thinking skills and activity based question.**
- **All questions including activity must be done in your MATHS fair copy only.**
- **Recite and Learn tables 2-20 every day.**

**Q1 Use BODMAS rule to find the value of the each of the following**

a. $[6 - \{(2 \div \overline{3 - 2}) \times 4 - 7\} + 8]$

b. $[\{(5 - 8) \times 2\} - 10 + \overline{3} - 1]$

c. $20 - [-15 + \{4 \div \overline{(-1) - 3}\}]$

d. $10 - \{5 + (-3) + 8 - (-15 + 4)\}$

e. $140 - 12 \times [3 - 4\{2 \times 3 - \overline{2 \times (-8)}\}]$

**Q2 Word Problem:**

**a)** In a class test containing 10 questions, 5 marks are awarded for each correct answer and (-2) marks are awarded for each incorrect answer and 0 for questions not attempted.

i) Mohan gets four correct and six incorrect answers. What is his score?
ii) Reshma gets five correct answers and five incorrect answers. Find her score?
iii) Heena gets two correct and five incorrect answers out of seven questions she attempts. Calculate her score?
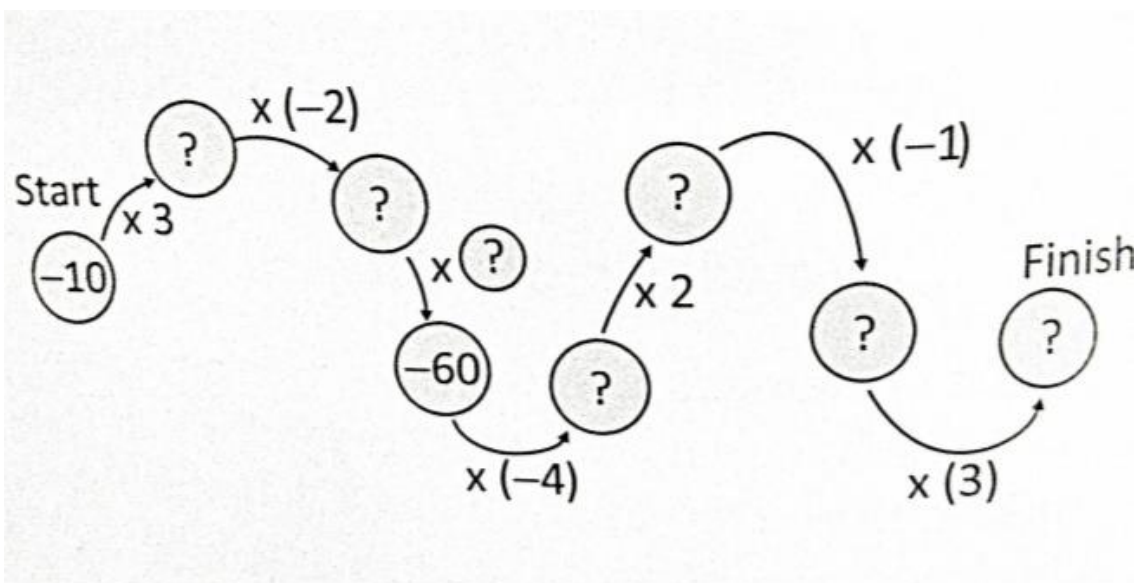
## Q3 Thinking skill based questions:

Find three integers in a row, column or a diagonal, where the third number is the quotient of the first two. Ring the three numbers. One example has been done for you:

Example:   [(-9) ÷ (-3) = 3 ]        Try to find at least 15 such triplets.

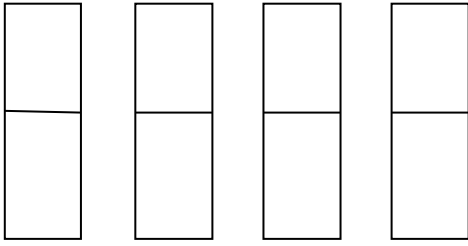| -9 | 0 | 60 | 64 | 1 | 18 | 8 | 22 |
|----|-----|----|-----|-----|-----|-----|------|
| 8 | 3 | 20 | -2 | -10 | 9 | 1 | 9 |
| 5 | 0 | 3 | -32 | -16 | 2 | 6 | -100 |
| 6 | -1 | -3 | 14 | 8 | 20 | 4 | -10 |
| -3 | 2 | 21 | 7 | 3 | 7 | 100 | 10 |
| -2 | 180 | 6 | 2 | 44 | 44 | -1 | -44 |
| 0 | 90 | 0 | 8 | -11 | -11 | 2 | -7 |
| 42 | 2 | 8 | 9 | -4 | -4 | -1 | 4 |

**Q4** Guess the common relation between the missing numbers in the given diagram. Find out the finish answer.   Also, try and guess the sign of the integer in the **Finish circle**. Fill in the blank circles with the correct integers. If there are no integers in between, by which number should you multiply the integer in the **Start** circle to get the answer in the **Finish** Circle?

**Q5 Maths Lab activity:**

To Divide 4 by ($\frac{1}{2}$), we multiply 4 by reciprocal of $\frac{1}{2}$. That is $4 \times \frac{2}{1} = 8.$ Take four strips of the same size.

Divide each into halves. There are 8 halves in all. Therefore, **4 by** $\frac{1}{2}$ equals 8.



Cut and paste the colourful craft paper strips, in your maths notebook to do this activity.

## Q6 Maths Video Making:

 Students are required to make a video of their own (not more than 3 min.) **on any 1**

of the given topics.

Thereafter, you need to send your video to your respective subject teacher's what app number

1. Make a video showing easy Multiplication tricks of 2-digit and 3-digit numbers.

2. Make a tutorial video explaining the basics of ABACUS and how it makes our calculations easy.

3. Make a video showing different **3D geometrical shapes** by proper labelling and relating them with the things you see around.( Eg. Cube, Cuboid, Sphere)

# Social Studies

Q1.  On an outline Political map of India mark and label:

All the Indian States and their capitals.

Q 2.Draw and describe:

    a) Biosphere

    b) Volcanic Cone

    c) Layers of the Earth

Q 3.Identify them and write two sentences on each:

    a) Ibn-Batutah        b) Rosa Parks

    c) Kalhan        d) Alberuni

    e) Al -Idrisi

Q 4. Write a paragraph on any four monuments made by the Mughals one in each part (i.e. east, west, and north, south) of our country.

Q 5. Define -   Monarchy, Opposition Party, Ruling party, Dictatorship.

Q 6.  Make a Video of 3 minutes on the following topics:- ( any one)

    a)  Earthquake at Bhuj in 2001

    b)  Equality in Indian Democracy.

    c)  Explain Cartography, where did it arise and how did it reach India?

# HINDI

1. लेख लिखे-( एक पेज का) विषय- ऑनलाइन क्लासेज पर मेरा अनुभव।
2. पत्र -विषय -शुल्क मुक्ति हेतु अपने प्राचार्य को पत्र लिखिए।
3. निबंध- हमारी मातृभूमि -भारत वर्ष
4. स्वर और व्यंजन की परिभाषा लिखते हुए वर्णमाला कॉपी में में लिखें।
        पत्र, निबंध और वर्णमाला को कॉपी में लिखने के साथ-साथ याद भी करना है।
निम्नलिखित किसी एक विषय पर 3 मिनट का वीडियो तैयार करें-
1 वर्तमान समय में आपके हाथ में मोबाइल है ।इंटरनेट में पूरा संसार है, इसका दुरुपयोग भी किया जा सकता है किंतु इसका सदुपयोग कैसे करें? इस पर अपना विचार व्यक्त करें।
2 आपके जन्मदिन को माता-पिता बहुत धूमधाम से मनाते हैं ।9 मई (मातृ दिवस) को आपने किस तरह मनाया।
3 गर्मी की छुट्टियों में नानी के घर बिताए हुए पलों की यादें।
सामान्य ज्ञान प्रश्न
1 छत्तीसगढ़ राज्य का नाम छत्तीसगढ़ क्यों पड़ा?
2 छत्तीसगढ़ राज्य का गठन कब हुआ?
3 छत्तीसगढ़ की सीमा से लगे हुए राज्यों के नाम लिखें।
4 छत्तीसगढ़ के प्रथम मुख्यमंत्री एवं राज्यपाल का नाम लिखिए।
5 छत्तीसगढ़ में प्रसिद्ध व्यंजन कौन-कौन से हैं?


# SANSKRIT

    1-  संस्कृत भाषा से संबंधित 2 श्लोक लिखिये|
    2-  लट्लकार में संस्कृत में 5 वाक्यलिखिये|
    3 – किसी भी एक विषय पर (3 मिनट की ) संस्कृत में वीडियो बनावें:---
    क – भारतवर्षम्ख – संस्कृत गीतम्ग-कोई 2 श्लोक (अर्थसहित)
    4 –आप क्या जानते हैं? ( हिन्दी भाषा में उत्तर लिखिये )
    • संस्कृत भाषा के विषय में आप क्या जानते हैं? तीन वाक्यों में उत्तर दें|
    • रामायण के रचयिता महर्षिवाल्मीकि हैं, उनके बारे मेंआप क्या जानते हैं ?
    • श्रीमद्भगवद्गीता के बारे में आप क्या जानते हैं ?
  5- अपनी संस्कृत की पाठ्य-पुस्तक से कोई भी श्लोक या वंदना लिखकर उससे संबंधित एक पोस्टर बनावें|

# SCIENCE

Q1 Define nutrition? Write the different modes of nutrition in plants and describe the other modes of nutrition (Heterotrophic Nutrition) in different plants. Also paste the pictures of different plants showing the different heterotrophic mode of nutrition (At least two pictures of each plant).

Q2 Observe the digestion process in different animals and write the difference in their modes of taking food (ingestion) in such organisms. (Like Algae, cockroach, Hydra, butterfly, mosquito, housefly, spider, starfish, frog, cow, human being).

Q3 Make a video lesson of 3 min on the following topics. (any one)

- Prepare video lesson Defining nutrition and different modes of nutrition in plants with examples.
- To explain the digestive system in human beings and the process of digestion, with their various organs involved in the process.
- Have you ever seen a cow or Buffalo chewing something after they had eaten the food? What is that which they chew ,In order to know this prepare a video lesson explaining briefly about the process of digestion in Ruminating animals(Cows, Buffalo, goat, sheep ).

Q4 G. K questions.

Q1. What is the name of the first indigenous testing kit for COVID-19 in India which was launched at Pune.

A) Patho detect.   B) Covid detect.      C) India detect.            D) Matlab detect.

Q2.  Rh factor is present in

A) Blood.      B) Bone.      C) Cell.        D) None of these

Q3. Which acid is used in car batteries?

A) Hydrochloric acid.        B) Boric acid.        C) Sulphuric acid.     D) Carbonic acid

Q4. In India when did the second phase of COVID -19 Vaccination Start.

A) December 2020.  B) January 2021      C) February 2021.    D) March 2021

Q5.  Which state has recently launched the "Kisan Kalyan Mission" in January 6, 2021?

A) Madhya Pradesh.          B) Uttar Pradesh      C) Maharashtra      D) Punjab.

## COMPUTER

Q1. Convert Decimal to binary number system.

➢ $(87)_{10} = (?)_2$

➢ $(262)_{10} = (?)_2$

Q2. Convert binary to decimal number system.

➢ $(10011)_2 = (?)_{10}$

➢ $(1010101)_2 = (?)_{10}$

Q3. Solve the following

➢ $10111 + 110101$

➢ $1001010 + 11011$

- 100010110 – 1111010
- 101101 – 100111
- 1111 X 111
- 10011 X 1001
- 111101 / 100
- 111001/101

Q4. Create an informative video on the topic 'Network Security' with the help of following points:
   I. What is Network Security?
   II. What is the need of Network Security?
   III. What are the types of network Security?

Q5. GK Questions:
   a) Name the first calculating device?
   b) Who is the father of artificial intelligence?
   c) Which was the world's first successful electronic computer?
   d) Transformation of input into output is performed by _____.
   e) There are ___ types of paragraph alignment.

## Q6. Art Integrated Activity

I. "Incredible Chhattisgarh".

Make PPT/Video/Scrap book/ Stick file on the following topics related to our State Chhattisgarh.

1. Introduction - Formation of Chhattisgarh State, location, climatic conditions, language spoken, state flower, state animal, state bird and tourist attraction spots.
2. Mention the geometrical shapes you can identify from the famous temples and monuments.
3. Mention the names of some medicinal plants found in the forest of Chhattisgarh.
4. Mention the names of famous folk dancers and singers.
5. Festivals and traditional food.

II. Write a paragraph (80- 100 words) in Hindi on:

छत्तीसगढ़ का गौरव : भगवान राम का ननिहाल

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