



HOLIDAY HOMEWORK

2023

GRADE-8



ENGLISH

1. Read a novel or a collection of short stories and write a book review.

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

2. Write an essay on a current event or social issue.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines, typical of notebook paper. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

3. Watch a movie or a TV show and write a review or analysis of the plot, characters, and themes.

[illegible]

4. Write a poem or a short story on a topic of your choice.

[illegible]

5. Write a letter to the editor of a newspaper expressing your opinion on a current issue.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

6. Conduct an interview with a family member or a friend and write a feature article based on the interview.

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7. Participate in a debate with any of your family members, on a topic of your choice and write a reflection on the arguments presented.

8. Reading Comprehension

In November 1918, he joined Sydenham College as a professor of political economics and worked there for two years. With his little savings, some help from the Maharaja of Kolhapur, and with a loan of five thousand rupees from his friend, Naval Bhathena, he left for England in 1920 to complete his studies in Law and Economics. He resumed his studies at the London School of Economics and kept his terms at Gray's Institute of Law. He turned his attention to the London Museum where the relics of the saintly and scientific thoughts are preserved, where the ruins of the antique world are displayed and where Karl Marx, Mazzini, Lenin and Savarkar had dug for knowledge and digested it.

In the Museum, he poured over books from morning till evening. Time was an important factor with him. To save both money and time, he would go without lunch. After this, the second round of reading begins at his residence. The endless reading would go on till early morning. He told his room-mate that his poverty and want of time require him to finish his studies as early as possible.

During these studies in London for his academic eminence, he had not forgotten the real aim in his life. He could not for a minute forget the dumb faces of the untouchables in India. He took up this matter with the Secretary of State for India and also held discussions with Mr. Vithalbhai Patel in London. Neither he could forget the alien political realities of the nation.

In a paper read before the Students Union and also in his famous thesis "The Problem of the Rupees", he exposed the hollowness of the British policies in India, which caused a stir in the academic world of London and Ambedkar was suspected to be an Indian Revolutionary.

Question. Where did Dr. Ambedkar teach?

- (i) London School of Economics
- (i) Sydenharn College
- (iii) London Museum
- (iv) Gray's Institute of Law

Question. Dr. Ambedkar was a teacher of

- (i) Political Economics
- (ii) Law
- (iii) Literature
- (iv) Political Science

Question. Who amongst the following was Dr. Ambedkar's benefactor?

- (1) Raja of Kathiawar
- (ii) Queen of England
- (iii) Raja of Kolhapur
- (iv) Lord Gray

Question. Name Dr. Ambedkar's friend who helped him to go to England.

- (i) Nawal Kishore
- (ii) Karl Marx (1) Lenin
- (iv) Naval Bhathena

Question. Why did Dr. Ambedkar try to finish his studies as early as possible?

- (1) due to illness
- (ii) for lack of resources and time
- (ii) due to adverse climate
- (iv) due to nostalgia

Question. What was Dr. Ambedkar's real aim in life?

- (i) Upliftment of the downtrodden caste
- (i) Upliftment of his family (ii) Academic eminence
- (iv) Successful career as a lawyer

Question. What was the core slogan raised by Dr. Ambedkar?

- (1) Self-awareness amongst the oppressed
- (ii) Open revolt
- (i) Pacification of the untouchables
- (iv) Revolt of the oppressors

Question. Where did Dr. Ambedkar spend most of his time in London?

- (i) Courtrooms
- (ii) India House
- (iii) Royal Palace
- (iv) London Museum

9. Read the following poem carefully.

You are still young but as you grow older you will realise how inwardly man goes through hell, goes through great misery, because he is in constant battle with himself, with his wife, with his children, with his neighbours, with his gods. He is in sorrow and confusion there is no love, no kindliness, no generosity and no charity. And a person may have a Ph.D. after his name or he may become a businessman with houses and cars but if he has no love, no affection, kindliness, no consideration, he is really worse than an animal because he contributes to a world that is destructive.

Answer the following questions.

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- This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

10. Read the poem carefully:

MY TREE

O tree, so big and stout and strong.
You've lived so very, very long;
A hundred years or more, I'm told
And yet you're not so very old.
A hundred secrets you could tell
Of children whom you love so well,
Who came and sat beneath your shade
Or underneath your branches played.
A hundred birds have built their nest;
Your leaves have softly kissed their breasts;
Your branches seem to touch the sky,
Yet you were once as small as I.
Some day when I have grown up, too,
I'm coming back to visit you;
And changed though other things will be,
I'll find the same dear friendly tree.

Given below is the summary of the poem. Complete it by writing the missing word against the correct blank.

The speaker in the poem is a young (a) _____ who is fascinated by the sheer (b) _____ and height of the tree in his neighbourhood. He believes it knows many (c) _____ of children who once used to (d) _____ in its shade and play under its (e) _____. It is home to hundreds of (f) _____ who build their nests in it. It is so tall that its branches seem to be (g) _____ the sky and the speaker is surprised that once upon a time it was just a little sapling. He wishes to (h) _____ tall and strong like the tree and hopes that when he (i) _____ it some years later he would find it as (j) _____ then as it is now.

11. Parts of speech: Choose a paragraph from a newspaper or a book and identify the different parts of speech used in it, such as nouns, verbs, adjectives, adverbs, pronouns, prepositions and conjunctions.

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हिंदी

१.आपने अपनी गर्मी की छुट्टियां किस प्रकार बिताई ? इस विषय पर २५० शब्दों में निबंध लिखिए ।

[illegible]

[illegible]

[illegible]

[illegible]

२. अपने हिंदी -१ पुस्तक से " मेरा नया बचपन " तथा "बेटियां कहें माँ से " कविताएँ
याद करें ।

३. अपनी हिंदी व्याकरण की पाठ्य पुस्तक से पाठ १ से ८ तक की सभी परिभाषाएं
याद करें ।

MATHEMATICS

1. Verify closure property and commutative property of addition for each pair of the given rational numbers.

(i) $\frac{3}{5}, \frac{7}{9}$

(ii) $\frac{-2}{7}, \frac{11}{3}$

(iii) $\frac{7}{4}, \frac{-5}{6}$

2. Represent the following rational numbers on the number line.

(i) $\frac{3}{5}$

(ii) $-\frac{4}{11}$

(iii) $\frac{17}{5}$

(iv) $-\frac{19}{4}$



3. Find five rational numbers between:

(i) $\frac{2}{3}$ and $\frac{4}{5}$

(ii) $\frac{-3}{2}$ and $\frac{5}{3}$

(iii) $\frac{1}{8}$ and $\frac{1}{2}$

4. Find ten rational numbers between -9 and 9.

5. The cost of $\frac{19}{4}$ metres of wire is $\frac{171}{2}$. Find the cost of one metre of the wire.

6. A $117\frac{1}{3}$ m long rope is cut into equal pieces measuring $7\frac{1}{3}$ m each. How many such small pieces are these?

7. Read the following and answer the questions (i) – (iii).

A number which can be expressed in the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$ is called a

rational number. All natural numbers, whole numbers, integers and fractions are rational numbers, but the converse may not be true.

The following information was taken from a newspaper:

| Jan. to Sept. | Two-wheeler accidents | Total accidents |
|---------------|-----------------------|-----------------|
| 2020 | 552 | 1545 |
| 2021 | 750 | 2000 |

(i) Which of the following does not represent a rational number?

(a) $\frac{6}{7}$

(b) $\frac{0}{1}$

(c) $\frac{1}{0}$

(d) $-\frac{2}{3}$

(ii) Which of the following rational numbers represents the two-wheeler accidents to the total accidents in 2020?

(a) $\frac{552}{2000}$

(b) $\frac{750}{2000}$

(c) $\frac{750}{1545}$

(d) $\frac{552}{1545}$

(iii) How many rational numbers exist between two given rational numbers?

(a) 1

(b) 0

(c) infinite

(d) None of these

8. Solve.

a. $\left(\frac{1}{4}\right)^{-2} + \left(\frac{1}{2}\right)^{-2} + \left(\frac{1}{3}\right)^{-2}$

b. $\left(\left(\frac{-2}{3}\right)^2\right)^3 \times \left(\frac{1}{3}\right)^4 \times 3^{-1} \times \frac{1}{6}$

9. Express $\frac{1.5 \times 10^6}{2.5 \times 10^4}$ in the standard form.

10. Find the value of n :

$$\frac{2^n \times 2^6}{2^{-3}} = 2^{18}$$

11. Read the following and answer the questions.

In science and engineering, we often come across very large numbers as well as very small numbers

- Charge of an electron is 0.000,000,000,000,00016 coulomb.
- The mass of the Earth is 5,976,000,000,000,000,000,000 kg.
- The Sun is located at a distance of 300,000,000,000,000,000 m from the centre of our galaxy.

It is very difficult to read, write or work with these numbers. This difficulty is overcome by writing these numbers in the exponential form. We must remember that:

- Very large numbers can be expressed in standard form using positive exponents.
- Very small number can be expressed in standard form using negative exponents.

Now, answer the following questions:

(i) The mass of the Earth is _____ kg.

- (a) 5.976×10^{24} (b) 59.76×10^{24} (c) 0.5976×10^{24} (d) 5.976×10^{23}
-
-

(ii) The Sun is located at a distance of _____ from the centre of our galaxy.

- (a) 3×10^8 m (b) 3×10^{20} m (c) 3×10^{21} m (d) 0.3×10^{20} m
-
-

(iii) The charge of an electron is _____ coulomb.

- (a) 1.6×10^{-18} (b) 1.6×10^{-20} (c) 1.6×10^{-19} (d) 1.6×10^{-21}
-

12. The volume of the Earth is approximately 7.67×10^{-7} times the volume of the Sun. Express this figure in usual form.

13. Write the value of n in each of the following.

(i) $5^{-3} \times 5^n = 5^4$ (ii) $(-7)^{2n} \div (-7)^3 = (-7)^3$ (iii) $\left(\frac{2}{9}\right)^3 \times \left(\frac{2}{9}\right)^{-6} = \left(\frac{2}{9}\right)^{2n-1}$

(iv) $\left[\left(\frac{1}{3}\right)^4\right]^n = \left(\frac{1}{3}\right)^2 \times \left(\frac{1}{3}\right)^{18}$ (v) $\frac{5^n \times 5^3 \times 5^{-2}}{5^{-5}} = 5^{12}$

14. Evaluate each of the following.

(i) $5^0 \times 3^{-1}$

(ii) $\left(\frac{5}{3}\right)^{-1} \times \left(\frac{5}{3}\right)^4$

(iii) $\left[\left(\frac{1}{7}\right)^{-1} \times \left(\frac{1}{7}\right)^{-2}\right]^{-1}$

(iv) $\left[\left(\frac{1}{3}\right)^{-2} \times \left(\frac{1}{3}\right)^4\right]^2 \div \left(\frac{1}{3}\right)^3$

(v) $\frac{10^{-5} \times 9^{-4}}{2^{-4} \times (15)^{-3}}$

15. Simplify each of the following.

$$(i) \left\{ \left(\frac{1}{3} \right)^{-2} - \left(\frac{1}{2} \right)^{-3} \right\} \div \left(\frac{1}{4} \right)^{-2}$$

$$(ii) \left(\frac{3}{7} \right)^{-5} \times \left(\frac{7}{11} \right)^{-4} \times \left(\frac{11}{3} \right)^{-6}$$

$$(iii) \left[\left(\frac{3}{4} \right)^{-1} + \left(\frac{6}{5} \right)^{-1} \right]^{-1}$$

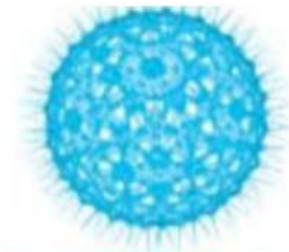
$$(iv) [(3^{-7} \div 3^{-10}) \times 3^{-5}]^0$$

$$(v) [(-2)^{-2}]^{-3}$$

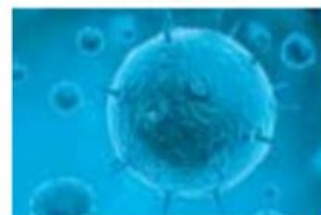
$$(vi) \left[\left(\frac{1}{3} \right)^{-2} + \left(\frac{1}{4} \right)^{-2} \right] \times 5^{-2}$$

16. Read the passage and answer the questions.

Pollen grains cause allergies in many people, but they are usually too small to see with the unaided eye. A grain of ragweed pollen, for example, is only 0.00002 m in diameter.



Viruses are another common cause of human illness. They are even smaller than pollen grains. A typical virus is only about 0.00000002 m in diameter.



Based on the above information answer the following:

- (i) Write the size of ragweed pollen grain in standard form.
- (ii) Write the size of virus in standard form.
- (iii) What is the difference between the size of a pollen grain and that of a virus in standard form?

17. Prepare a chart of 10 very large numbers like distance between the Earth and the Sun, the diameter of the Earth, speed of light etc. and 10 very small numbers like thickness of hair, charge on electron, etc. and present them in standard form.



SCIENCE

1. Define the following.

a. Weeding

b. Winnowing

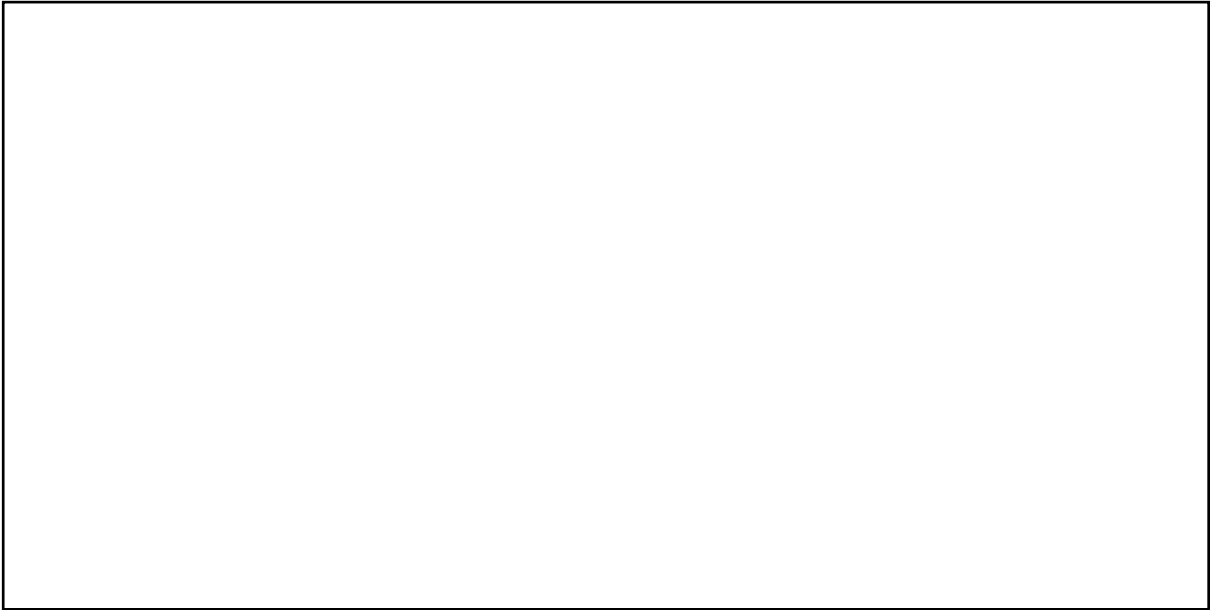
c. Apiculture

d. Pisciculture

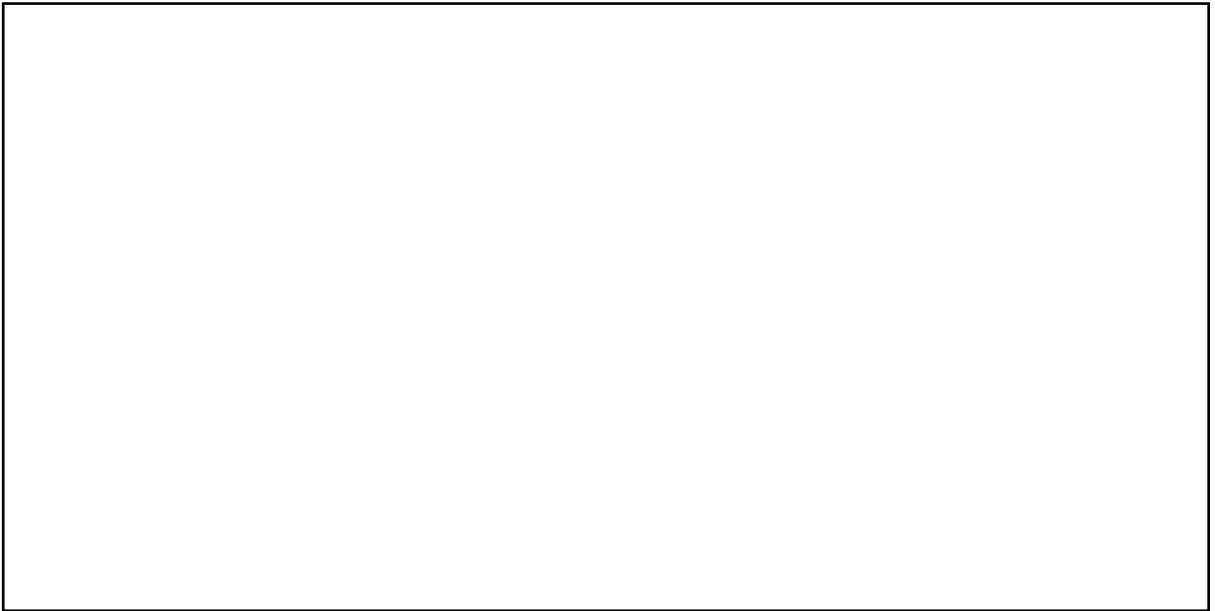
e. Animal Husbandry

2. Differentiate between the following.

a. Manure and Fertilizers



b. Crop rotation and Mixed Cropping



3. What is Buffer Stock?

4. Read the passage and answer the questions that follow.

Weeds are unwanted plants which grow along with the main crop and compete with them for water, nutrients, space and sunlight. It is important that farmers remove them at regular intervals of time otherwise the yield of the crop would be affected. The process of removing weeds from a field is called weeding. Weeding can be done mechanically, chemically or biologically.

(a) Which of the following are examples of weeds?

- | | |
|------------------|-------------------|
| (i) Amaranthus | (ii) Wild oat |
| (iii) Parthenium | (iv) All of these |

(b) How can one do weeding by mechanical method?

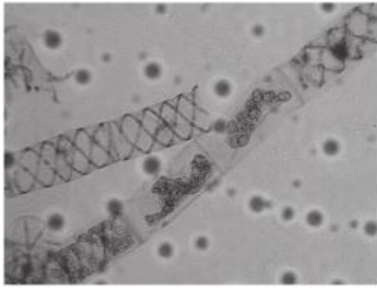
- | | |
|--|---------------------------------------|
| (i) By spraying weedicides | (ii) By releasing weed-eating insects |
| (iii) By using implements like khurpi and harrow | (iv) By releasing cows for grazing |

(c) Which of the following insects is released in fields for removing prickly pear?

- | | |
|----------------------|--------------------|
| (i) Cochineal insect | (ii) Butterfly |
| (iii) Lepidopterans | (iv) None of these |

5. Identify the following images and write one characteristic of each.

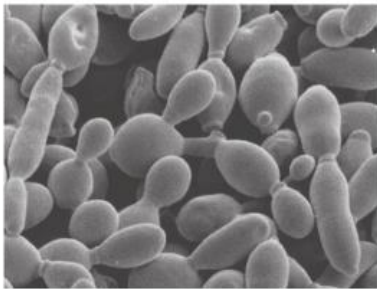
(a)



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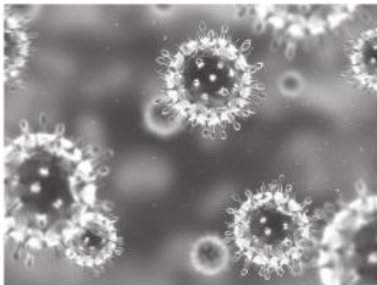
(b)



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(c)



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6. The erosion of topsoil disturbs the nitrogen cycle. Explain.

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7. You are suffering from cold, running nose and sore throat but your doctor did not prescribe any antibiotic medicine. What could be the reason?

8. Read the following passage and answer the questions.

Food poisoning is caused by eating spoilt food. Spoilage of food occurs due to microbial attack on food. Foul smell and bad taste are characteristics of a spoilt food. Food poisoning can cause vomiting, diarrhoea and abdominal pain. Microorganisms require air, water and warmth for growth. Food can be prevented from getting spoilt by preventing the growth of microorganisms.

(a) Which of the following microbes cause food poisoning?

- | | |
|--------------------------|-----------------------------------|
| (i) <i>Salmonella</i> | (ii) <i>Clostridium botulinum</i> |
| (iii) <i>Aspergillus</i> | (iv) All of these |

(b) _____ is the method by which the moisture content of food is reduced by drying in the sun to prevent the growth of microorganisms.

- | | |
|----------------------|------------------|
| (i) Freezing | (ii) Dehydration |
| (iii) Pasteurization | (iv) Salting |

(c) Which of the following methods is used for preserving milk?

- | | |
|-------------------|---------------------|
| (i) Refrigeration | (ii) Pasteurisation |
| (iii) Salting | (iv) Drying |

9. Study the pictures given alongside and answer the questions.



a. Name the agricultural implement. What is it used for.



b. Which system of irrigation does the picture show? In which kind of soil is this system of irrigation very useful?

10. Collect some useful plants from a garden or a field. Dry them in the folds of an old newspaper. Paste them in the space provided below. Write their names and uses.

11. Find out more about pisciculture from the internet. Prepare a report on it.

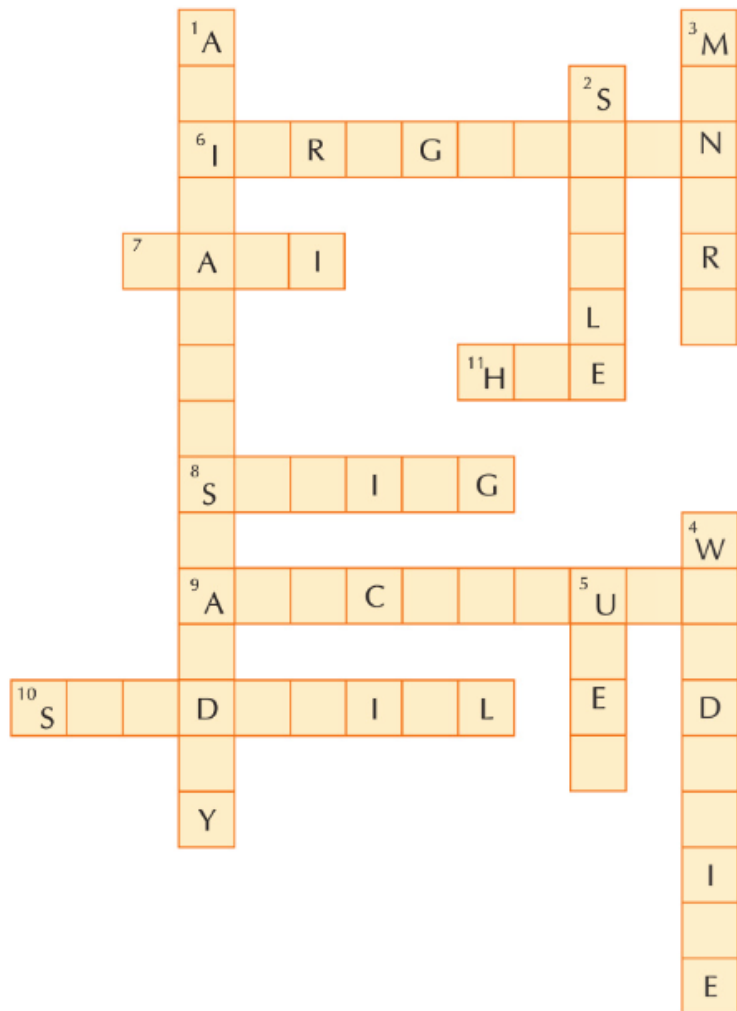
12. Solve the crossword puzzle with the help of given clues.

Down

1. Rearing of animals on a large scale
2. An implement used to harvest crop
3. A natural substance used to replenish nutrients in the soil
4. Chemical used to destroy weeds
5. An example of a fertiliser

Across

6. The process of watering crops
7. Winter season crops
8. The process of putting seeds into the soil
9. Rearing of honeybees on a large scale
10. An implement used to sow seeds
11. An implement used for ploughing



13. When Vishu went to his native village, he saw his grandfather ploughing the field using plough pulled by oxen. He helped his grandfather to adopt new techniques for farming. What values did Vishu exhibit?

14. Study the picture given below and write few lines about it.



15. What will happen if children are not vaccinated?

16. Why does curd set faster in summers than in winters?

17. Visit your family doctor. Make a list of vaccines that are given to a child from birth up to the age of 10. Also find out the diseases for which they provide immunity. Prepare a report in the space provided below.

18. Make a creative poster on Covid-19.

19. Most packaged food items have 'expiry dates' on them. It is best to consume these before the given expiry date. Check the packets of five different products and complete the table below.

| S. No. | Product name | Expiry date | Method of packaging |
|--------|--------------|-------------|---------------------|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |

20. Write some lines on "Evolution of bacteria and its effects".

21. Study the picture given below and write some lines on it.



SOCIAL SCIENCE

1. Plan a visit with your parents to a historical monument and collect information on the following :

- (i) when was it built**
- (ii) To whom does it belong?**
- (iii) What is its historical significance**

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There is a vertical margin line on the left side, creating a narrow left margin. The paper appears to be from a notebook or a standard composition book.

2. What role did the British government play in supporting the Company's power in India?

[illegible]

3. Find out the names of the Governor Generals of India between 1750 and 1856 and make a timeline of their tenure.

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4. What were the major systems of administration put in place by the British during their rule in India?

[illegible]

1. Identify the person

A portrait of a man with light-colored hair, wearing a bright red coat over a dark cravat. The background is dark and indistinct.This image shows a blank sheet of white paper with horizontal blue or grey ruling lines. In the top right corner, there is a small, realistic-looking sticker of a red apple with a green leaf. The paper appears to be part of a notebook or a worksheet.[illegible]

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

This image shows a blank sheet of white paper with ten horizontal black lines, resembling notebook paper. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

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[illegible]