ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN

SUMMER HOLIDAY HOMEWORK

CLASS - 8   SESSION: 2024-25

1. ENGLISH

1. **Enrich Your Vocabulary**

   Write one word everyday along with its 2 antonyms and 2 synonyms (To be done in A4 sheets)

2. **Creative Writing**

   Write a self composed poem / short story /article (on any topic) in an A4 sheet. Original & best pieces of writing will be published in the school magazine.

3. **Handwriting**

   A beautiful handwriting   makes a good impression and summer break is a perfect opportunity to improve your handwriting .Do one page writing daily in a new notebook.

4. **Revision**

Revise all the work done in the class so far.

2. हिन्दी

1) विद्यालय की वार्षिक पत्रिका हेतू स्वरचित कविता, कहानी अथवा लेख A4 शीट पर लिखें|
2) मिट्टी या क्ले (CLAY) का प्रयोग करते हुए आभूषण अथवा सजावट का कोई सामान तैयार करें|
3) पूरकपुस्तक "भारत की खोज" में से पाठ 1 से 3 तक पढ़ें और उस पर आधारित 20 प्रश्न तैयार करें और उत्तर सहित पतली नोटबुक में लिखें)
4) करवाया गया समस्त पाठ्यक्रम नियतकालिक परीक्षा 1 हेतु याद करें|

3.MATHS

  (i) **Do the PRACTISE WORK in a thin notebook.**
 (ii) **Do the activities in a practical file. (interleaf)**
(iii) **The PROJECT workhas to be done by all students individuallycompulsorily.**

PRACTISE WORKSHEET (CH 1)

Q1. Pick up the rational numbers from the following numbers.
6/7, −1/2, 0, 1/0, 100/0
Q2. What properties, the following expressions show?
(i) $2/3 + 4/5 = 4/5 + 2/3$
(ii) $1/3 \times 2/3 = 2/3 \times 1/3$
Q3. Find a rational number between 1/2 and 1/3.
Q4.Case based question: A dog buried three bones in the backyard. The first bone is buried $-2\frac{1}{2}$ feet, the second bone is buried $-5\frac{2}{6}$ feet and the third bone is $-30/4$ feet.

  (i)   **Simplify $-2\frac{1}{2} \times -5\frac{2}{6} \times \frac{-30}{4}$**
  (ii)   **How much deeper is the third bone than the first bone?**

PRACTISE WORKSHEET (CH 2)

Q1.Solve for x: **8x + 4 = 3 (x – 1) + 7**
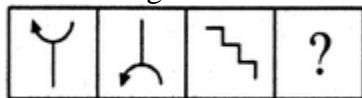**Q2. Solve for z : 3 (5z – 7) – 2(9z – 11) = 4(8z – 13) – 17**
Q3.Solve for n: n/2 – 3n/4 + 5n/6 = 21
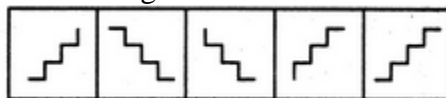
LOGICAL REASONING QUESTIONS
(i)Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures: Answer Figures:

   (A)   (B)   (C)   (D)   (1)   (2)   (3)   (4)   (5)

(ii)Look at this series: 36, 34, 30, 28, 24, ... What number should come next?
LEARNING BY DOING!!!

1. Prepare a working model on any topic related to your syllabus. The best models will be kept in Maths Lab.
2. Activities – (to be done in practical file -interleaf ones):
 (i) Fold a paper 8 times in any manner. Unfold and locate various convex and concave polygons.
(ii) Prove the angle sum property of quadrilateral using paper folding and cutting method.

 4. SCIENCE

1.Activity-1a: Collect the pictures of various agricultural implements and paste them into your notebook. Write down their usage.

b. COMPETENCY BASED QUESTION-
Given below is a conversation between two farmers Heera and Beera.
Heera: Brother Beera, your maize crops look beautiful. They have grown pretty fast.
Beera: Yes, I have sprayed urea this time. What about you?
Heera: Well, I am still relying on good old cow dung. I am saving money for buying a tractor.
Beera: That's good. Tractor saves a lot of time and labour.
Heera: Yes, it's been very labour intensive for me and now these weeds have come up.
Beera: Try weedicides, they are very effective.
Now, answer the following questions.
(i) List the practices which are not environment friendly and why?
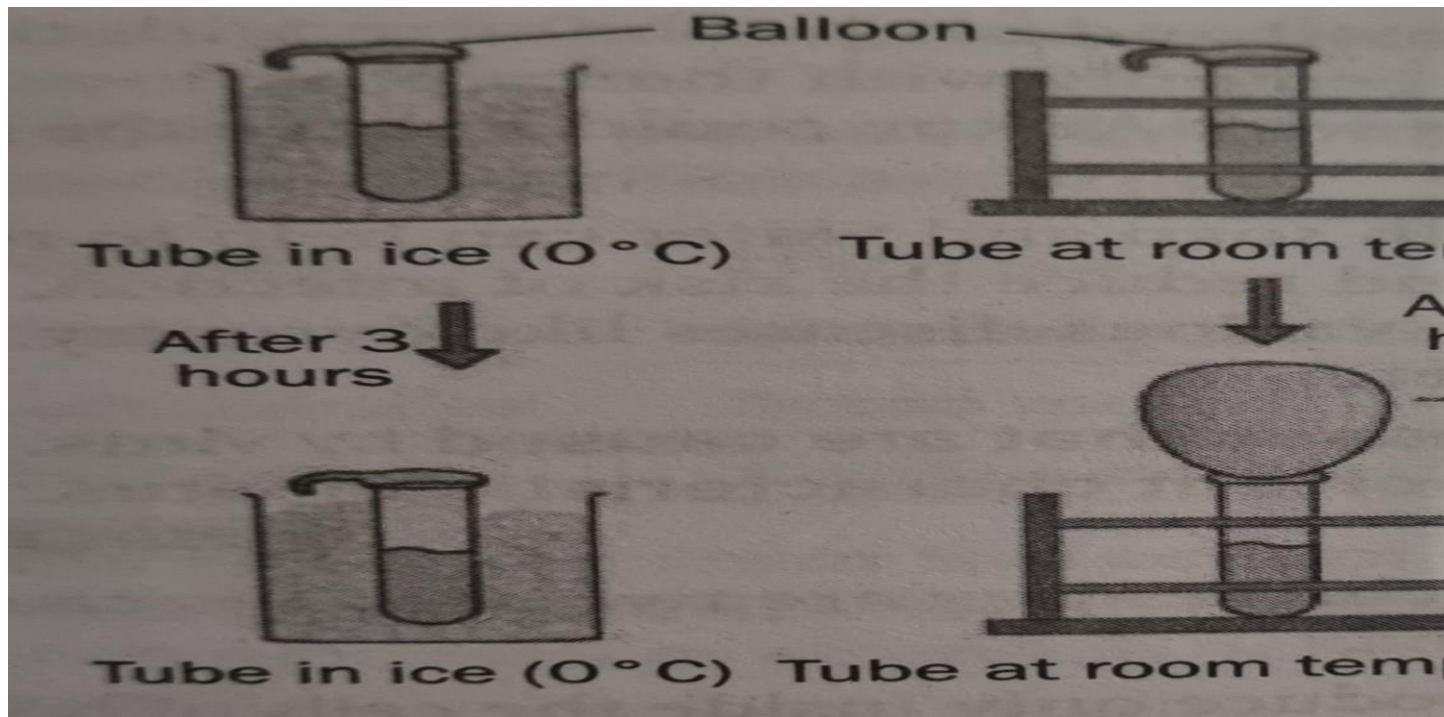**(ii) What is the advantage of modern agricultural implements over traditional ones?**
(iii) Name one weedicide and the precaution, farmers must take during its application.
2. Activity–2a: Curd Formation- To study the conditions necessary for the growth of curd bacteria.
Under the guidance of your mother or an elder at home make arrangement for the formation of curd. Write your experience in the form of a paragraph. Also write the name of bacteria involved in formation of curd.
b. CASE BASED QUESTION
Manoj adds some yeast to two test tubes containing sugar solution. He ties balloons on the mouth of each of test tube. One test tube is kept in ice and the other at room temperature. The picture shows what happens after three hours.

Balloon

Tube in ice (0°C)   Tube at room te

After 3 hours

Tube in ice (0°C)   Tube at room temp

(i) What is Manoj investigating?

(a) Does yeast grow in sugar solution only?

(b) Does yeast convert sugar into alcohol?

(c) Does temperature affect the growth of yeast?

(d) Which gas is produced as yeast grows in sugar solution?

(ii) How can Manoj confirm, if the gas produced in the test tube at room temperature was due to the yeast growing in it?

(a) He should repeat the same experiment

(b) He should leave the test tube undisturbed for six hours

(c) He should repeat the experiment with test tubes containing more sugar solution

(d) He should keep an extra set of test tubes with sugar solution, but without the yeast

(iii) What should Manoj keep the same in both the test tubes for a fair experiment? Circle 'Yes' or 'No' for each row.

	Should this be kept same for both the test tubes?	Yes or No
a	The concentration of sugar solution	Yes/No
b	The colour of the balloons	Yes/No
c	The amount of yeast added to each test tube	Yes/No

(iv) What type of organism is yeast?

(a) Fungi   (b) Bacteria   (c) Algae   (d) Protozoa

c. How do vaccines work? Who discovered Vaccine and How? Write the names of the Vaccines of the following diseases.

a. Hepatitis   b. Polio   c. Tuberculosis   d. Mumps   e. Measles   f. Typhoid

3. Activity-3: 1. To know about the different methods of preservation. a) Collect the wrappers of frozen and canned food items and milk. b) Find about the preservatives present in these food items. c) List the various preservatives and methods of their preservation.
2. List down the food items that are generally spoiled by the presence of bacteria. Taking any one example explain how it can be prevented.
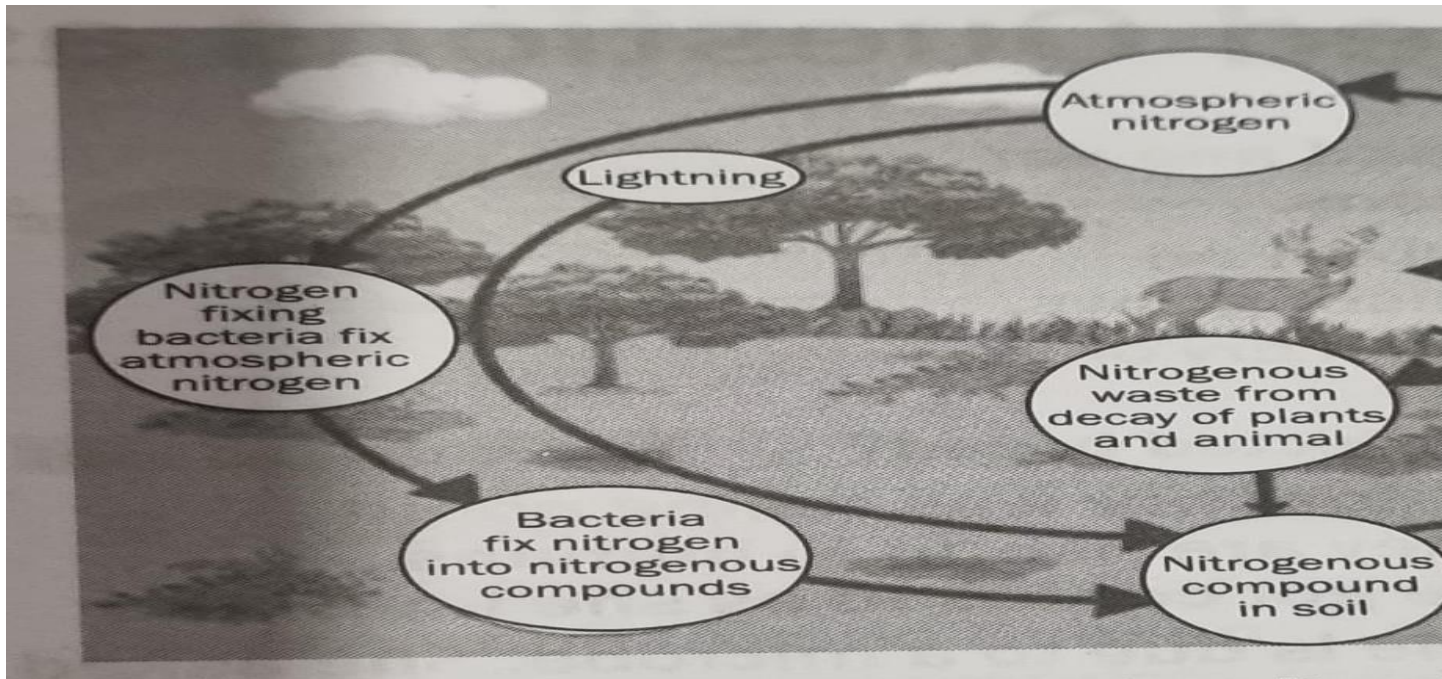**4. Activity-4: Find out biodegradable and non-biodegradable material used in day to day life. Think about how you can reduce, reuse, recycle and recover (4R's principle) materials and write about it.**
5. Activity-5:In older time coal was the main fuel used for cooking. Now a day which fuel is mainly used for cooking and what is its advantage over coal?
Map Activity Take a map of India and locate the places where the reservoirs of coal, petroleum and natural gas are found. Identify the states where they are found in abundance.
What practice you will follow in your daily life for saving fuel? Write a paragraph on it.
6 The picture shows the nitrogen cycle.

i.   **How do plants take up nitrogen?**

ii.   **Plants and animals are continuously using nitrogen. Will there be a depletion of nitrogen in the environment due to its continuous use? Explain your answer.**

7. Complete your copy work and learn Question Answers of all the chapters done in the class.

    Note: All the above activities should be done in Scrap book.

5.SOCIAL SCIENCE

1.   **ART INTEGRATION ACTIVITY (Uttarakhand and Puducherry)**

    ✓ Tourist places of Uttarakhand and Puducherry
    ✓ Paste pictures on above topic on A4 sheets.
    ✓ *This is your Multiple Assessment Activity of 5 Marks.*

2.   **Make and write 20 questions and answers (One word or one sentence answer) from History Chapter-2**

    ✓ Do this in fair notebook

3.   Observe and note down the idols of great personalities in public squares (Chauraha) near your localities. Write a note about them(any five). Write the place also where these idols are situated.

3.   Learn and revise all the completed chapters.

1) "मेरा विद्यालय" पर पांच वाक्य संस्कृत भाषा में A-4 शीट पर लिखें |
2) दो मित्रों के बीच 'पर्यावरण' को लेकर 5-5 वाक्य संवाद के रूप में संस्कृत भाषा में A-4 शीट पर लिखें |

3) प्रतिदिन संस्कृत का एक पाठ पढ़े , जिससे उच्चारण में सुधार हो सके |
4) करवाया गया समस्त कार्य परीक्षा हेतु तैयार करें |

7. INFORMATION TECHNOLOGY (IT)
Q1. Make a Chart or a collage on the following topics according to your roll numbers:

Roll no.   **Topic**

1-10   Computer Network

11-20   Shortcut Key

21-30   Internet

31-40   Latest Gadgets

41 onwards   Operating Systems

Q.2 Create a Presentation on the topic "Microsoft Access".

Note: Learn lesson 1 and 2 for PT 1 exam.

8. ARTIFICIAL INTELLIGENCE (A.I)
1. Complete Worksheet-1 on page 21 and Worksheet-2 on page 40 in the

book.

2. Answer the following questions in your **AI notebook**.

a) What is a Smart City?

b) List any **five** technologies crucial for Smart city development.

c) Provide examples of real-world Smart City initiatives from different parts of India.

d) Design a futuristic model of your ideal Smart City that uses AI to improve the quality of life of its citizens in a sustainable manner.

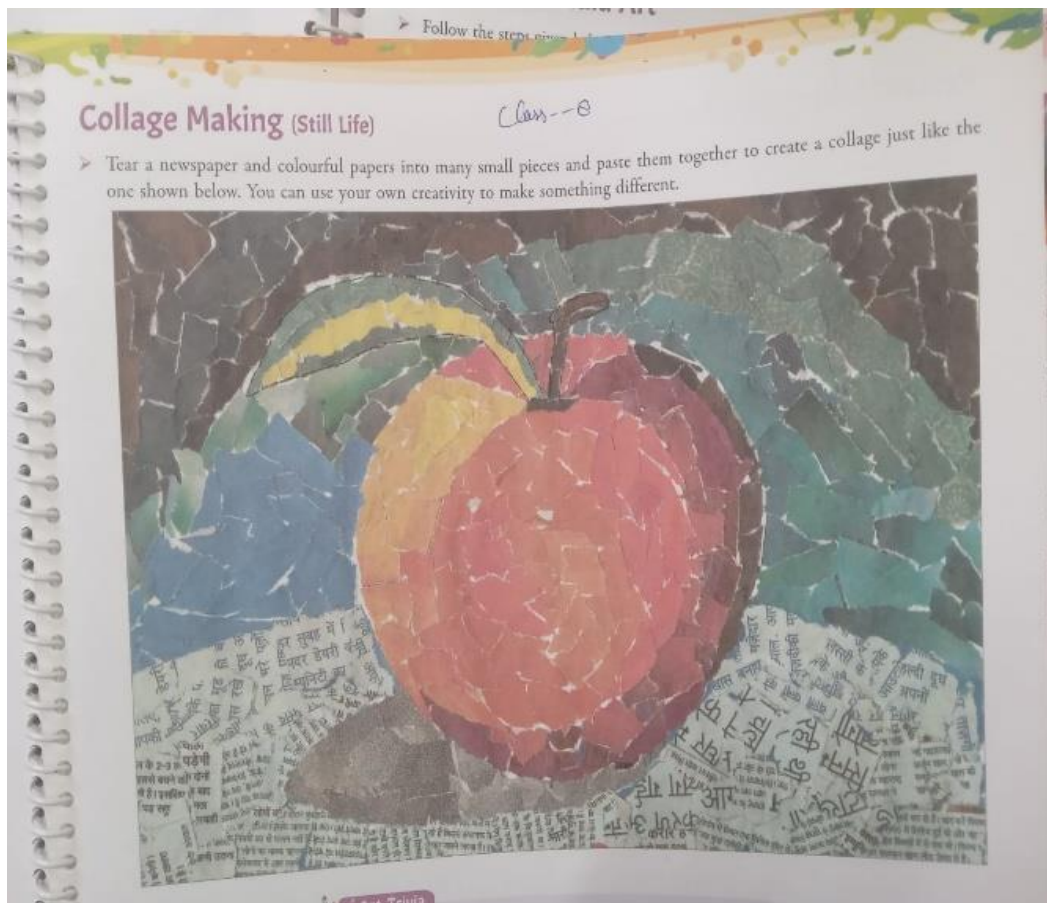*(For reference, see the sample model on page 116 of your book)*

9. ART AND CRAFT
Do Any One art and craft activity out of the given two topics mentioned in your Art book. The pictures of the pages are also shown below.
  1. PAGE NO. 40 - OUR HERITAGE (KOLAM HANGING)
              OR
  2. PAGE NO. 47- COLLAGE MAKING   (STILL LIFE)

1.

2.

Our Heritage (Kolam Hanging)

Class- 8

➢ Observes the steps given below to make a Kolam hanging on an MDF board. Create your own Kolam hanging by following the steps.

Step-1: Take an MDF board of size 12 x 12 inches and paint it with your favourite colour.

Step-2: Take your painted square and place some white stones or beads with equal gaps as shown or draw any pattern of your choice.

Step-3: Take thread or wool of white colour and make a pattern in the centre.

Step-4: Now, use white stones and thread to complete the border with same pattern and complete it.

Step-5: Take a white strip of size 8 x 30 cm and fold it twice. Make small cuts. After that, take the thread and paste on one side and roll it to make the hanging as shown.

Step-6: Paste the small hangings at three corners of the square. Your Kolam hanging is ready.

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