



DELHI PUBLIC SCHOOL

CHAS, BOKARO

SUMMER VACATION ACTIVITIES AND ASSIGNMENTS

(SESSION : 2023-24)

Class - VII

INSTRUCTIONS:

- In general, all the questions are to be answered in the classwork notebook.
- Projects and activities are to be done as per the instructions given along with the questions.
- Summer Vacation assignment will be the part of Internal Assessment.

English

1. Read the case given below and then answer the question briefly:
Water is one of nature's most precious gifts, but it is unfortunate that we do not understand its worth and over-exploit this resource for our selfish purposes. It is a matter of serious attention that water must be conserved at all costs. We need water for daily use at home and for agriculture. Drinking water is however limited as we get it mainly from the clouds and glaciers. If this resource is used wisely, then there will be no problem. But unfortunately, it is being over-exploited. Our ever-increasing population has created scarcity of water. It is predicted that by the year 2025, nearly two billion people will live in absolute water scarcity. This is a signal to be cautious enough in the use of water. Every drop of water is precious and it must not go in vain. Water shortage is a grim reality for the cities as well as villages. We need to wake up to it now than be sorry later. We must conserve water in ponds and tanks. We should try our best to use water cautiously. If we continue using it recklessly, we will face dire consequences. By saving water, we will save ourselves.
 - a) Why is water the most precious gift of nature?
 - b) What is the main cause of water scarcity?
 - c) How do you think we can conserve water?
 - d) Give a suitable title to this passage.
 - e) What will be the result of using water carelessly?
2. Make a poster to encourage the citizen of your area to use the water judiciously.
3. Answer in detail:
 - i. The story of Rama turned out to be a comedy of errors on stage. Support your answer with examples from the text.
 - ii. What is the point of view and theme of the poem 'The Hero'?
4. Write an article on the topic "The Power of Instrumental Music in Boosting Productivity" in about 100-120 words.

हिन्दी

1. निम्न गद्यांश को पढ़कर उनमें से पाँच प्रश्न बनाकर उत्तर सहित लिखें—

“जल है तो कल है”, बावजूद इसके जल बेवजह बर्बाद किया जाता है। हमें यह नहीं भूलना चाहिए कि जल-संकट का समाधान जल के संरक्षण से ही है। हम हमेशा से सुनते आए हैं “जल ही जीवन है”। जल के बिना सुनहरे कल की कल्पना नहीं की जा सकती, जीवन के सभी कार्यों का निष्पादन करने के लिये जल की आवश्यकता होती है। पृथ्वी पर उपलब्ध एक बहुमुल्य संसाधन है जल, या यूँ कहें कि यही सभी सजीवों के जीने का आधार है ‘जल’। धरती का लगभग तीन चौथाई भाग जल से घिरा हुआ है, किन्तु इसमें से 97 प्रतिशत पानी खारा है जो पीने योग्य नहीं है, पीने योग्य पानी की मात्रा सिर्फ 3 प्रतिशत है। इसमें भी 2 प्रतिशत पानी ग्लेशियर एवं बर्फ के रूप में है। इस प्रकार सही मायने में मात्र 1 प्रतिशत पानी ही मानव के उपयोग हेतु उपलब्ध है।

नगरीकरण और औद्योगीकरण की तीव्र गति व बढ़ता प्रदूषण तथा जनसंख्या में लगातार वृद्धि के साथ प्रत्येक व्यक्ति के लिए पेयजल की उपलब्धता सुनिश्चित करना एक बड़ी चुनौती है। जैसे-जैसे गर्मी बढ़ रही है देश के कई हिस्सों में पानी की समस्या विकराल रूप धारण कर रही है। प्रतिवर्ष यह समस्या पहले के मुकाबले और बढ़ती जाती है, लेकिन हम हमेशा यही सोचते हैं बस जैसे-तैसे गर्मी का सीजन निकाल जाये बारिश आते ही पानी की समस्या दूर हो जायेगी और यह सोचकर जल संरक्षण के प्रति बेरुखी अपनाए रहते हैं।

2. किन्हीं पाँच ऐसे भारतीय राज्यों की सूची बनाइए जहाँ पानी की बहुत किल्लत है। वहाँ के लोगों के जीवन जीने के तरीके, पानी के बिना जिंदगी, पानी के बचाव के लिए अपनाए गए उपाय, उनका रहन-सहन तथा खान-पान को फाइल में दर्शाएँ।

3. दिए गए वर्ग-पहेली में से सार्थक शब्दों को लिखें—

			1 छ			2 चुँ
3 भाँ	4 प	ना		5 ध		द
	रि		6 क	म	जो	री
7 अ	व	न	म	न		
	ह		ठी		8 दं	
9 सि	न	क			भ	

4. आपकी मुलाकात किसी विशेष व्यक्ति से अचानक हो गई। उस अनुभव को लगभग 30-35 शब्दों में लिखें।

संस्कृतम्

1. स्वस्थं पर्यावरणम् अस्माकं स्वस्थजीवनस्य आधारः अस्ति । यथा निर्मलं कीटाणुरहितं जलं वायुः च अस्मभ्यं स्वस्थजीवनं प्रयच्छतः । सम्प्रति वैज्ञानिके 'युगे उद्योगानां तीन विकासात् पर्यावरणस्य महती समस्या उत्पन्ना । औद्योगिक संस्थानेभ्यः निर्गतं दूषितं जलं त त्रत्यं परिवेषं दूषयति येन बहुविधाः रोगाः जायन्ते । इदमेव दूषितं जलं नदीं प्राप्य तत्रत्यं जलमपि दूषयति । एतेनैव कारणेन पवित्रतमायाः गंगायाः जलमपि बहुशः प्रदूषितं जातम् । गंगाजल प्रदूषणमुक्त कर्तुं राष्ट्रिया योजना निर्मिता तदनुरूपः प्रयासः च प्रवर्तते ।

प्रदत्तगद्यान्शं पठित्वा अधोलिखितान् प्रश्नान् स्वशब्देषु लिखत (10-15 शब्देषु)

- I) निर्मलं जलं कीदृशं भवति?
- II) सम्प्रति वैज्ञानिके महती समस्या का?
- III) दूषितेन जलेन किं भवति?
- IV) कैः कारणैः गङ्गायाः जलं प्रदूषितं जातम्?
- V) गङ्गाजलप्रदूषणमुक्ताय राष्ट्रिया योजना किं करोति?

2. प्रदत्तं चित्रं दृष्ट्वा अष्टवाक्यानि लिखत।



3 अस्माकं कृते जलसंरक्षणं आवश्यकं किमर्थं अस्ति? स्वशब्देषु संस्कृतेन लिखत (80)

4 ग्रीष्मावकाशे कृता यात्रायाः वर्णनं स्वशब्देषु संस्कृतेन लिखत (दश वाक्यानि)

Maths

Instruction : Content based question will be solved in classwork notebook of Mathematics.



With this thought, on the eve of **National Water Conservation Day** a marathon was organised on 22nd March at Mohan kumar Mangalam stadium situated at Bokaro. The marathon runner started the race from the stadium. Passing through the five key points **A, B, C, D, and E** within the city the race ended at Circus Maidaan Sector- 4.

- Point A:** K.M. Stadium (00 metres)
- Point B** (750metres)
- Point C** (1650metres)
- Point D** (2275 metres)
- Point E** (3000 metres)
 - Mark these points on a number line on a suitable scale (if needed).
 - How much less is point C's distance from point D.
 - Solve: $(-750) + (-1650) - (-2275)$

Activity based question.

To represent the following products of decimal numbers on a square by drawing horizontal and vertical lines and shade:

- 0.4×0.5
- 0.6×0.7

Instructions to be followed:

- Materials required: a thin white and colourful papers paper, a ruler, colour pencils, erasers etc.
- The activity will be prepared and submitted in a project file.
- Sequence: Title, objective, pre-requisite knowledge, materials required procedure, observation, and result.
- Cover page (school name, session, topic: summer vacation assignment, student's name, roll no., Section, subject, subject teacher's name)

Content based questions:

1. Simplify: $\frac{12}{25} \times \frac{15}{28} \times \frac{35}{36}$
2. If $a = -8$, $b = 5$, and $c = 3$ show that
 - i. $(a + b) + c = a + (b + c)$
 - ii. $a \times (b - c) = a \times b - a \times c$

Science

PHYSICS

1. Case Based Question:

22 March is celebrated as the world water day. We celebrate **water day** every year to attract the attention of everybody towards the importance of conserving water. The amount of water recommended by the United Nations for drinking, washing, cooking and maintaining proper hygiene is a minimum of 50 litres per person per day. This amount is about two and a half buckets of water per person per day.

In some places there is an acute shortage of water. Taps running dry, long queues for water, fights, marches and protests for demand of water have become a common sight, especially during summers. Year 2003 was observed as the International Year of Freshwater to make people aware of this dwindling natural resource.

- 1) What is the significance of water conservation in the present scenario and how it can be achieved?
- 2) Which year was observed as an international year of fresh water?
- 4) During which season the crisis of water really become more?
- 5) Why water day is celebrated every year?

2. Activity Based Question

- i) Suppose you want to dry your school uniform quickly. Would spreading it near an *anghiti* or heater help? If yes, how?



- ii) Take out a cold bottle of water from the refrigerator and keep it on the table. After some time, you will notice a puddle of water around it. Why?



- iii) To clean their spectacles, people often breathe out on glasses to make them wet. Explain why the glasses become wet.



3. **Answer the following questions :**

- i) Why are paper industries set up near a place where water is available in plenty ?
- ii) Explain why, if we take out a cold bottle of water from a refrigerator and keep it on a table, we notice a puddle of water around it after some time.
- iii) State the effect of deforestation on rainfall on water scarcity.

CHEMISTRY

Case Study Question:

1. Read the following paragraph and answer the following questions. (5)

Most towns and cities have water supply system maintained by the civic bodies. The water is drawn from nearby lakes, rivers, ponds or wells. The water is supplied through a network of pipes. Many villages do not have such.

A water supply system. There people fetch water directly from the sources. Often people and even children have to walk several kilometers to fetch water. The children suffer a lot. They cannot attend school regularly since they spend hours in fetching water. A large number of people draw water from wells, tube wells or hand pumps. Rajasthan is a hot and dry place. The challenge of natural scarcity of water was met by a successful experiment. A band of social workers has transformed a dry area in the Alwar district into a green place. They have revived five dried-up rivers — Arveri, Ruparel, Sarsa, Bhagani and Jahazwali by constructing water harvesting structures.



- i) Which place is hot and dry and has very less water?
 - ii) From where does a large number of peoples get water for their daily requirements?
 - iii) _____ maintain the water supplies in most of cities and town.
 - iv) Who transformed Alwar district into a green place?
 - v) Why some children cannot attend school regularly?
2. **Activity based question:** Indicate the wool and silk producing regions on the political map of the world.

3. Paheli went to the market to buy sarees for her mother. She took out a thread from the edge of the two sarees shown by the shopkeeper and burnt them. One thread burnt with a smell of burning hair and the other burnt with the smell of burning paper. Which thread is from a pure cotton saree and which one from a pure silk saree? Give reason for your answer.
4. Explain the phrase – “Unity is Strength” on the basis of the making of fabric from fibre.
5. Some words related with silk are jumbled up. Write them in their correct form.

(a) TURECULRISE	(b) WILSMORK
(c) BELMURRY	(d) RINGLEE

BIOLOGY

1. **Theme based question:**

With the city facing a shortage in water storage at the Thumbe vented dam, which supplies drinking water to the city, the Mangaluru City Corporation (MCC) will resort to water rationing from 5 May 2023. Instead of daily supply, water will be supplied on alternate days from Friday as per MCC sources. However, the DC and other concerned authorities who take the Lighthouse Hill Road daily to their offices, have turned a blind eye to the gallons of water that have been leaking due to faulty pipes underground for days, near Karnad Sadashiv Rao library/St Aloysius College, LHH road, Mangaluru. The water has been flowing all along the road and the officials have neglected this issue while rationing of water will start soon.

Carry out a campaign to conserve water at your locality. Survey your neighborhood and make a note of the following:

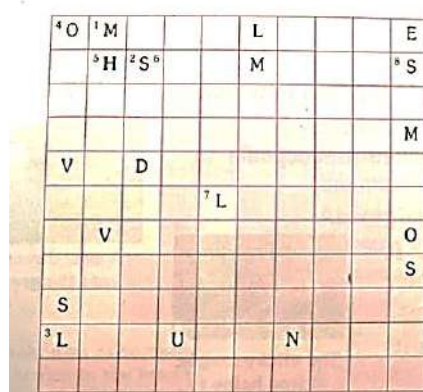
- a) Total number of taps and number of taps leaking
- b) Amount of water wasted due to leakage
- c) Reason for leakage
- d) Corrective measures taken.

2. **Activity based question:**

Visit a green house or a nursery near your place. Observe how they grow plants inside the green house. Find out how they regulate the amount of light, water and carbon dioxide to grow plants. Write a report about your visit in biology note copy.

3. **Puzzles and quiz:**

Solve the crossword puzzle with the help of clues given.



ACROSS

1. A partially parasitic plant. (9)
2. Small pores on the undersurface of a leaf. (7)
3. Plant having Rhizobia in its root. (10)

DOWN

4. Both plant and meat eaters. (9)
5. Plant or grass eaters. (9)
6. An insectivorous plant. (6)
7. Family of Gram, Peas, Beans and Moong. (6)
8. Two organisms work together to benefit each other. (9)

4. **Tour based questions:** Explain the different types of flora and fauna found in your place of visit during summer vacation.

HISTORY & SPL**1. Read the source given below and answer the questions that follow.**

Water is a vital renewable natural resource. Three fourth's of the earth's surface is covered with water. It is therefore appropriately called the 'water planet'. It was in the primitive oceans that life began almost 3.5 billion years back. Even today, the oceans cover two-thirds of the earth's surface and support a rich variety of plant and animal life. The ocean water is however saline and not fit for human consumption. Fresh water accounts for only about 2.7 per cent. Nearly 70 per cent of this occurs as ice sheets and glaciers in Antarctica, Greenland and mountain regions. Due to their location they are inaccessible. Only 1 per cent of freshwater is available and fit for human use. It is found as ground water, as surface water in rivers and lakes and as water vapour in the atmosphere. Fresh water is therefore, the most precious substance on earth. Water can neither be added nor subtracted from the earth. Its total volume remains constant. Its abundance only seems to vary because it is in constant motion, cycling through the oceans, the air, the land and back again, through the processes of evaporation, precipitation and run-off. This as you already know is referred to as the 'water cycle'. Humans use huge amounts of water not only for drinking and washing but also in the process of production. Water for agriculture, industries, generating electricity through reservoirs of dams are the other usages. Increasing population, rising demands for food and cash crops, increasing urbanisation and rising standards of living are the major factors leading to shortages in supply of fresh water either due to drying up of water sources or water pollution.

- i. What are different sources of surface water?
- ii. The percentage of the fresh water found on the earth's surface is _____.
- iii. Define precipitation.
- iv. Explain the water cycle with the help of a diagram.

2. Activity Based Question : Make a model of water cycle.**3. Give reasons.**

- (i) Ocean water is salty.
- (ii) The quality of water is deteriorating.

GEOGRAPHY**1. Read the source given below and answer the questions that follow.**

Sima goes daily 1 kilometer to fetch drinking water from a distant well. She walks through dusty and bumpy road of the village. Drinking water has remained the biggest problem for the people of her village. All the women join together, form group and walk for fetching water by sharing their daily life stories. There they have to wait for long hours to take one or two buckets of water, every drop of which is spent very carefully.

- i. Which type of resource the water is?
- ii. Why is it mentioned in the above passage that 'every drop of water is spent very carefully'?
- iii. What is the source of well water from where it gets recharged?
- iv. Write the reasons for the scarcity of water.

2. **Activity based questions.**



- i. Identify the above picture?
 - ii. Which type of ecosystem is this?
 - iii. Mention different types of biotic and abiotic components found in this ecosystem.
 - iv. Why is it necessary to change and clean the water of the above pictured ecosystem once a week approximately?
 - v. Make a model of artificial ecosystem.
3. Answer the following questions. (Text based)
- i. What is ecosystem?
 - ii. With the help of a label diagram explain the domains of the Earth.
 - iii. What do you know about 'human environment'?

Work Edu.

1. Differentiate between Decimal and Hexadecimal number system.
2. What is Binary Arithmetic?
3. What is Binary Number System? Explain with an example.
4. Fill correct data in correct box:

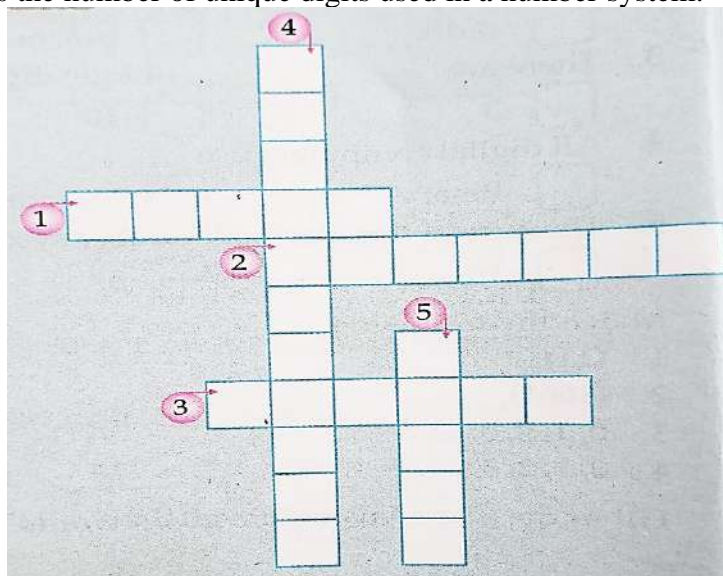
Number System	Type	Base	Unique symbols	Example

Case Study:

Rohan's computer teacher asked him to convert number $(1001)_2$ into decimal number. Rohan is trying but he is confused how to write the conversion and which method to use for conversion.

5. Help Rohan to write the step to convert binary number into decimal number.
6. Write key components of binary to decimal conversion.

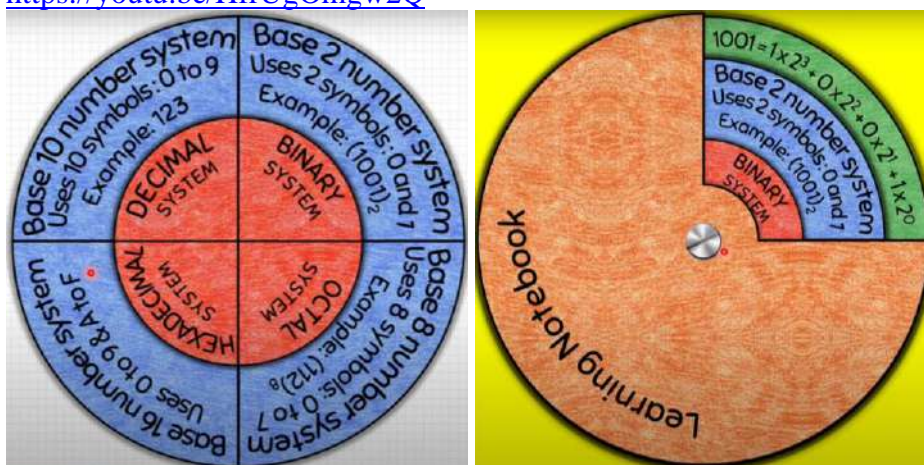
7. Solve the crossword with the help of clues given below:
- Number system that contains only digits from 0 to 7.
 - Number system which is made up of 10 digits.
 - Number system that has only two digits.
 - Number system that has 16 alphanumeric values.
 - It is the number of unique digits used in a number system.



8. Project

Make a model to show Computer Number system. Use Chart paper, Carboards and color to make this model. See link given below for instructions and hint.

<https://youtu.be/HfrUgOmgw2Q>



Art and Craft

Compare a poster on the topic 'Water Conservation and Management' in a chart paper of 11×14 inches. Colour it in water colour or poster colour. The heading must be written on the top paper. It must be outlined on all the four sides.

Physical Education

**** Prepare a project file with following contents:**

1. Identify the game you have played with your family during summer vacation and explain the game (Within 80 words).



2. Project work - Draw this court with its specifications and color it. (Use half of a chart paper).



3. As a captain of the team mention any five duties.
4. Write a short note about this game within 60 words.

What is Commonwealth Games

Known as the 'Friendly Games', the Commonwealth Games is a multi-sport event involving athletes from the Commonwealth of Nations.

The Games debuted in Ontario, Canada

The Games have grown from featuring 11 countries and 400 athletes, to a global spectacle of 4,600 sports men and women from across 72 nations and territories

Is held every four years, with a hiatus during World War II

NEWS 18

The infographic features a colorful logo at the top, a world map showing the Commonwealth of Nations, and a photograph of athletes at the bottom. The text provides key facts about the event's history and scale.

5. Identify this player and write biography of her within 70 - 80 words.



German

1. Schreib 10 Sätze wie im Beispiel. (Write 10 sentences as you)

Ich möchte	ein einen eine ----	Schokoriegel Cola Kuchen Schinkenbrot Jogurt Apfelsaft Kaffee Chips(!) Mineralwasser Eis	essen/trinken
------------	------------------------------	---	---------------

- | | |
|---|----------|
| 1. ich möchte einen Schokoriegel essen. | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

2. Ergänze wie im Beispiel.

- a. Trinkst du ein Mineralwasser? - Nein, ich trinke kein Mineralwasser.
- b. Möchtest du ____ Tafel Schokolade ? - Nein, ich möchte ____ Tafel Schokolade.
- c. Isst du ____ Jogurt? - Nein, ich esse ____ Jogurt.
- d. Möchtest du ____ Schinkenbrot ? - Nein, ich möchte ____ Schinkenbrot.
- e. Trinkst du ____ Cola? - Nein, ich trinke ____ Cola.
- f. Möchtest du ____ Schokoriegel ? - Nein, Ich möchte ____ Schokoriegel.

3. Ergänze : keinen, keine, kein ?

- | | |
|-------------------------------|-----------------------------------|
| 1. Ich esse ____ Käsebrot. | 5. Wir essen ____ Jogurt. |
| 2. Stefan isst ____ Apfel. | 6. Herr Meier trinkt ____ Kaffee. |
| 3. Ich trinke ____ Apfelsaft. | 7. Ich esse ____ Birne. |
| 4. Tina isst ____ Banane. | 8. Ich trinke ____ Cola. |

4. Ergänze die Tabelle.

	essen	möchten	nehmen	trinken
ich				
du			nimmst	
er, sie, es		möchtet		trinkt
wir	essen			
ihr	esst			
sie			nehmen	
Sie(höflich)		möchten		trinken

5. Ergänze in der richtigen Form: essen, nehmen oder trinken?

- A. Lea, was möchtest du in der Pause _____ ? Eine Birne oder eine Banane ?
- Nein Mutti, ich _____ lieber einen Schokorigel und _____ einen Saft.
- B. Samar, Sara, was _____ ihr ? Eine Limonade? – Ja, Limonade _____ wir immer gern.
- C. Ich n_____ einen Hamburger und was n_____ ihr ? – Ein Eis, bitte.
- D. Was _____ Lukas in der Pause? – Er _____ Lieber ein Käsebrod.
- E. Herr Schulz, was _____ Sie? Eine Suppe? – Nein keine Suppe bitte. Ich habe keinen Hunger.

6. Ergänze : einen, eine, ein ?

1. Ich esse _____ Hamburger.
5. Ich nehme _____ Apfelschorle, du auch ?
2. Ich nehme _____ Portion Pommes.
6. Ich esse _____ Schokorigel.
3. Ich trinke _____ Limonade.
7. Ich trinke _____ Glas Tee.
4. Ich möchte _____ Stück Pizza.
8. Was nimmst du? - _____ Schinkenbrod.

