



BHRIGU PRABHA CENTRAL SCHOOL

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CLASS-IX

SUMMER VACATION HOME WORK 2025-26

Dear Students

Summer Vacation is a welcome break but Good Habits and Good Manners are life long assets and manners must be practiced until they become a habit.

Four magic words that are basics of good manners are – Please, Thank you, Excuse me and Sorry. Make these four words a habit and see the difference.

Try to practice theses manner –

Manners :

At home :

- Help to keep the house clean especially the areas you use. Clear the toys, books or crafts that remain after you have finished.
- Honesty is the best policy. Tell the truth at all times.
- Be polite.
- Share the T.V. time. So not sit too close while watching T.V.
- Be fair with your friends, brothers and sisters.
- Be responsible.

At the dining table :

- Take small helping and refill, clean your plate up.
- Take small bites, eat neatly, slowly with your mouth closed.
- Help to clear the table and clean up.

In the park :

- Littering makes the park untidy.
- Destroying the plants or plucking the flowers will spoil the beauty.
- Wait for your turn on swing and slides.

At a party :

- Wish the host.
- Don't mess up somebody's house.

While shopping :

- Softly ask your parent for what you want. If refused, don't throw a tantrum.
- Be careful, don't touch any breakable item.

On the telephone :

- If there are no elders around, don't let the phone ring long, answer it.
- Talk softly when someone is speaking on the phone and don't interrupt.

Hygiene :

- Brush your teeth twice a day.
- Do trim your nails often.
- Do not waste water and electricity.
- Keep your surroundings and environment clean. It is bad habit to throw things out of the window, car or a balcony.
- Make friends having good habits who respect their elders and use good language.

ASSIGNMENT AND SPECIAL ASSIGNMENT FOR THE SESSION 2025-2026

HINDI

- 1) निर्देयानुसार उत्तर दीजिए।
 - क) जपानी लोग बहुत परिश्रमी होते हैं। “—वाक्य में कौन—सा विशेषण है।
 - ख) चार ताकतवर मजदूर इस भारी चीज को उठा पाए। रेखांकित भाग में कौन सा पदबंध है?
 - ग) इतनी लगन से काम करने वाला मैं असफल नहीं हो सकता।
 - घ) अरुणिमा धीरे—धीरे चलते हुए वहाँ जा पहुँची।
- 2) अपने जीवन लक्ष्य को लेकर दो मित्रों के बीच का संवाद लेखन लगभग 100 शब्दों में कीजिए।
- 3) छोटे भाई को कम खर्च करने की सलाह देते हुए 100 शब्दों में पत्र लिखिए।
- 4) जो भी पाठ को पढ़ाया गया है उन सभी प्रश्न—उत्तर को साफ—साफ और शुद्ध—शुद्ध फेयर कॉपी में पुरा करें।

English

1. You are Sunil\Sunita, you got a new bicycle as a gift from your father on your 14th birthday. Draft a diary entry about the day.

2. You are Ankit\Ankita, class IXth. You have got an opportunity to participate in a writing competition on the Topic “clean India, Green India”. Write a paragraph on it.

Answer the following questions:-

3. Why did Margie hate school? Why did She think the old kind of School must have been fun?
4. What do you mean by a virtual Classroom, Mechanical Teacher and a Telebook?
5. How does Evelyn hear music?
6. When and how did Bismillah Khan get his big break?
7. How is Shehnai different from Pungi?
8. Fill in the blanks with correct form of Tense.
 - a. I always _____ him in market (find)
 - b. They are _____ cricket match. (play)
 - c. I have been _____ since 2008. (teach)
 - d. Where _____ your father live? (Do)

S.ST.

Geography

Map-Based Questions.

1. Mark the Tropic of Cancer (23°30'N) on the map of India.
Name any two states through which it passes.
2. Locate and label the Standard Meridian of India (82°30'E).
Which state does it pass through?
3. Mark India's neighboring countries on the map.
Label at least five of them.
4. Point out the southernmost point of the Indian Union on the map.
What is its name? Is it still above sea level?

5. Mark and label the easternmost and westernmost longitudes of India. Mention the time difference between these two points.

Political Science

Concept-Based Questions

1. Why is democracy considered a better form of government compared to dictatorship or monarchy?
Explain with at least two points.
2. What are the key features of a democratic government?
List and briefly explain any three features.
3. Can a country be called democratic if elections are held but people have no real choice?
Justify your answer with an example.

SCIENCE

Section-A Physics

1. Abdul, while driving to school, computes the average speed for his trip to be 20 km/h. On his return trip along the same route, there is less traffic and the average speed is 30 km/h. What is the average speed for Abdul's trip?
2. State which of the following situations are possible and give an example for each of these:
 - (a) an object with a constant acceleration but with zero velocity
 - (b) an object moving with an acceleration but with uniform speed.
 - (c) An object moving in a certain direction with an acceleration in the perpendicular direction
3. A bus starting from rest moves with a uniform acceleration of 0.1 m/s^2 for 2 minutes. Find

- (a) the speed acquired,
 - (b) the distance travelled.
4. A racing car has a uniform acceleration of 4 m/s^2 . What distance will it cover in 10 s after start?
 5. What is the quantity which is measured by the area occupied below the velocity-time graph?

Section-B Chemistry

1. Which causes more severe burns - steam or boiling water at 373K? Explain.
2. List four characteristics of particles of matter.
3. Express in Kelvin temperature :-
 - (i) Melting point of ice
 - (ii) Boiling point of water.
4. Differentiate three states of matter - Solid, Liquid and Gas. (Ten differences)
5. An iron almirah is a solid at room temperature. Give three reasons.

Section-C Biology

1. Write the defining features of Cell.
2. Explain cell theory.
3. Write five differences between prokaryotic cell and eukaryotic cell.
4. Write a short note on cell organelles.
5. Why do lysosomes call as suicidal bag of the cell?
6. Write notes on the following cell organelle:
 - a. Mitochondria
 - b. Plastid
 - c. Endoplasmic reticulum

7. What happens to a cell when it is placed in:
 - a. Hypertonic solution
 - b. Hypotonic solution
 - c. Isotonic solution
8. Describe the structure and functions of the nucleus in detail.
9. Label the following parts in a diagram of a plant cell: Cell wall, nucleus, chloroplast, vacuole, cytoplasm
10. Sketch a diagram of an animal cell.

MATHS

1. Find three rational numbers between
 - i. $\frac{3}{8}$ and $\frac{2}{5}$
 - ii. -1 and 0
 - iii. $\frac{-3}{4}$ and $\frac{-2}{5}$
 - iv. $\frac{1}{9}$ and $\frac{2}{9}$
2. Find two rational numbers of the form $\frac{p}{q}$ between the numbers 0.2121121112..... and 0.2020020002.....
3. Represent $\sqrt{5}$ on the number line.
4. Simplify by rationalizing the denominator.
 - i. $\frac{7\sqrt{3-5\sqrt{3}}}{\sqrt{48+\sqrt{18}}}$
 - ii. $\frac{2\sqrt{6-\sqrt{5}}}{3\sqrt{5-2\sqrt{6}}}$
5. Find the values of 'a' and 'b' if

$$\frac{(7+3\sqrt{5})}{3+\sqrt{5}} - \frac{7-3\sqrt{5}}{(3-\sqrt{5})} = a + b\sqrt{5}$$
6. If $x = 9-4\sqrt{5}$, find the value of $x^2 + \frac{1}{x^2}$.
7. If $x = \frac{1}{2-\sqrt{3}}$, find the value of $x^3 - 2x^2 - 7x + 5$.
8. Find the value of x in each of the following.

(i) $\sqrt[3]{5x + 2} = 2$

(ii) $\sqrt[3]{3x - 2} = 4$

(iii) $\frac{3^{3x} \times 3^{2x}}{3^x} = \sqrt[4]{3^{20}}$

9. If $x = \frac{5-\sqrt{3}}{5+\sqrt{3}}$ and $y = \frac{5+\sqrt{3}}{5-\sqrt{3}}$ show that $x-y = \frac{-10\sqrt{3}}{11}$

10. If 2 and 0 are the zeros of polynomial $f(x) = 2x^3 - 5x^2 + ax + b$ then find the value of 'a' and 'b'.

11. Factorise : $7\sqrt{2} x^2 - 10x - 4\sqrt{2}$

12. If $x = \frac{5-\sqrt{21}}{2}$, find the value of $x + \frac{1}{x}$.

Note/Suggestion :-

- It is suggested to all the students that you must make a fair copy of your prescribed subject. The handwriting should be beautiful and clear.
- Be sure to practice Que. & Ans. of all the chapters in your fair copy.