

STEPHENS

INTERNATIONAL PUBLIC SCHOOL



Holidays' Homework

Session – 2021-22

Class : 9th

Subject : English

Task – 1

Write a diary entry in about 80 words about your daily routine and sharing your experience. Include the following points in your writing. (Write 20 pages)

- What were the significant events of the day?
- In what ways this day was different from other days?
- What did I read today?
- What gave me particular happiness or joy?
- What did I accomplish today?

Task – 2

Make a PPT on 'Clauses' using the following points.

- Use the slide master by feature to create a consistent and simple design template.
- Ensure it is easy to understand.
- Use contrasting colors for text and background.
- Design gracefully.

Task – 3

(A) Complete the passage with appropriate modals.

I hope you understand fully well how you **(a)** keep your body healthy. It is not through good diet alone. Even the best of diet **(b)** not give you good health. A good diet **(c)** be accompanied by good exercise. Exercise **(d)**, consist of a walk, jogging or skipping. Don't worry, exercise **(e)** not be taken for hours. You **(f)** spare a few minutes in the evenings and mornings to undergo the necessary quota of exercise.

(B) Fill in the blanks in the following paragraph with the most appropriate form of verbs given in the brackets.

Once there was king. He **(a)** (know) for his benevolence. Every day he **(b)** (feed) the hungry and **(c)** (clothe) the poor before he **(d)** (take) his food. He **(e)** (do) so far many years.

(C) Fill in the blanks with the most appropriate Determiners.

My friend lived on **(a)** 1st floor of **(b)** recently renovated old house on **(c)** river be as. She was afraid of burglars and always locked up **(d)** house carefully before going to bed. She also took precautions of looking under **(e)** bed to see if **(f)** burglar was hiding there.

(D) Complete the sentences by writing the most appropriate clauses.

- I wish
- Life is
- I have lost the book
- He is the boy
- It is strange
- Most of the parents do not know

विषय - हिन्दी

१. आप अपने इलाके के गरीब बच्चों को हर शनिवार-रविवार निःशुल्क पढ़ाना चाहते हैं। उससे संबंधित २०-२५ शब्दों में एक सूचना तैयार कीजिए।
२. “क्या हम कोरोनावायरस पर विजय पाएंगे कि नहीं” विषय पर दो छात्रों के बीच संवाद को लिखिए।
३. आप एक अच्छे चित्रकार हैं। अपने चित्रों की प्रदर्शनी के लिए लगभग २५-३० शब्दों में एक विज्ञापन तैयार कीजिए।
४. ‘कोरोनावायरस’ विषय पर अनुच्छेद लिखिए।
५. किन्हीं चार कवियों के चित्र चिपकाकर उनके जीवन परिचय के बारे में लिखिए।

नोट:-

- सभी विद्यार्थी अपने प्री-मिड टर्म के पाठ्यक्रम और व्याकरण का अभ्यास करेंगे।
- हम उम्मीद करते हैं कि सभी विद्यार्थी ग्रीष्मावकाश के दौरान अपना ग्रीष्मावकाश कार्य तो करें किन्तु अपने स्वास्थ्य का भी ध्यान रखें और लॉकडाउन के नियमों का पालन भी करें।



Subject : Mathematics

- Q1. If $x = 1 - \sqrt{2}$, find the value of $x - \frac{1}{x}$.
- Q2. Represent $\sqrt{3}$ on the number line.
- Q3. Visualise 5.6457 on the number line.
- Q4. Write the natural number n in the following:-
(i) $5^4 = n$ (ii) $6^3 = n$
- Q5. Factorise:- $3x^2 + 7x + 2$
- Q6. Use factor theorem to show that $(x - 2)$ is a factor of the polynomial $x^3 - x - 6$.
- Q7. Expand $(x + 3y + 6z)^2$ using suitable identity.
- Q8. Without actually calculating the cubes, evaluate $(21)^3 - (12)^3 - (9)^3$.
- Q9. Prove that sum of three angles of triangle is 180° .
- Q10. Prove that if two lines are parallel to each other intersected by a transversal then alternate interior angles are equal.
- Q11. If two lines intersect each other then prove that vertically opposite angles are equal.
- Q12. If two lines are parallel intersected by a transversal then prove that corresponding angles are equal.
- Q13. Plot the points $(5, 3)$, $(2, -4)$, $(-4, 4)$, $(-2, -3)$ and $(-1, 0)$ in the Cartesian plane using graph paper.
- Q14. In which quadrant or axis following points lies $(3, 6)$, $(-5, 2)$, $(-7, 3)$, $(-2, -6)$, $(-2, 0)$.
- Q15. Plot the following points and check whether they are collinear or not $(1, 3)$, $(-1, -1)$, $(-2, -3)$.
- Q16. Find four different solutions for the linear equation $4x - 7y = 9$.
- Q17. Find the value of k , if $(3, -4)$ is a solution of the equation $5x + ky = 7$.
- Q18. Total cost of a washing machine and coloured T.V set is Rs.16500. Write a linear equation in two variables to represent this statement.
- Q19. Evaluate $(102)^3$ using suitable identity.
- Q20. Prove that $(a - b)^3 = a^3 - b^3 - 3ab(a - b)$.

ACTIVITY

A city has two main roads which cross each other at the centre of the city these two roads are along the north-south direction and east-west direction. All the other streets of the city run parallel to these roads and are 200 apart. There are five streets in each direction using $1\text{cm} = 200\text{m}$. Draw a model of the city on your notebook represent the road/street by single lines.

There are many cross-street in your model a particular cross-street is made by two streets. One running in the north-south direction and another in the east-west directions. Each cross street is referred to in the following manner: if the second street running in the north-south direction and 5th in the east-west direction meet at some crossings then we will call this cross street $(2, 5)$ using this convention find

- (i) How many cross streets can be referred to as $(4, 3)$.
(ii) How many crossed it can be referred to as $(3, 4)$.

For natural number n , \sqrt{n} is either a natural number or an irrational number. Verify this statement by drawing a square root spiral and representation of numbers 1 to 9.

Subject : Science

SECTION 1

- A. Collect photos of 10 genetically improved crop varieties grown in India. Also write down their scientific and local names along with its genetic improvement.
- B. Collect photos of 10 plants and 10 animal diseases caused by bacteria and viruses. Also write about each along with their symptoms and cure.

SECTION 2

5th June is World Environment Day, observed all over the world. The theme of World Environment Day 2021 is "Ecosystem Restoration". Make a poster along with slogan on this theme.

SECTION 3

- A. It's been one and half year that world is fighting with virus called Corona. India and other countries has developed vaccine against Corona virus. Write an article on the working of vaccine, how vaccine helps to improve immune system against virus.
- B. India is an agriculture based country. For improvement in crop yield farmers use fertilizer and manure. Write an article on the uses of fertilizer and manure. Which one is more beneficial fertilizer or manure? Which one has advantage over other, also disadvantages.

SECTION 4

Activity: To know the difference between true solutions, colloids and suspension. Prepare all the three types of solutions (Name them A, B and C) and after studying the mechanisms involved, write the answers to the following questions in your Chemistry notebooks. Describe the activity (with its aim, materials required, procedure, and conclusion)

- Q1. Were you able to see the particles in the mixture of any (A, B, and C)?
- Q2. Have you observed the path of beam of light visible when passed through beaker containing mixture?
- Q3. Have you observed any settling of particles of the mixture after sometime or is it stable?
- Q4. Have you observed any residue left on the filter paper after filtration?

SECTION 5: Explain each of the following two activities in at least 100 words in your Physics notebooks.

- A. Tie an eraser to a string and rotate it along a circular path. Suddenly leave the string at any instant. Record this whole activity in a video clip. What do you observe? What is the direction of velocity of the rubber when the string is left? Is it along the same circular path which the eraser was moving in initially?
- B. Stand on the terrace of your house and take two different objects of different masses, say, a tennis ball and a plastic ball. Drop both of them simultaneously towards the ground. Ask your sibling or any other family member to record the time taken by each to reach the ground (use the stop watch in your mobile phone). Is the time same for the two objects or does it depend on their masses?

Subject : Social Science

"The covid-19 Pandemic could have a devastating impact on the livelihood and food security of millions of people across India."

1. ACTIVITY:

- (a) On an A4 size sheet, write down the steps that can be taken by Central Government of India to ensure and tackle food security in India during pandemic situation. (Refer to Ch-4 (Economics) Food security in India)
- (b) Photo collage making on the chapter poverty as a challenge.

2. MAP WORK:

Locate and label the following rivers on the map.

Ganga, Satluj, Damodar, Krishna, Narmada, Tapi, Mahanadi and Brahmaputra.

3. PROJECT:

Prepare a detailed project report on the given topic:

- Disaster management

4. GENERAL QUESTIONS:

Q1. Write short notes on the following:

- a) The Indian desert
- b) The central Highlands
- c) The Island groups of India
- d) The Northern plains

Q2. "Prime Minister is the head of the government." Justify the statement.

Q3. Mention any four non farm production activities of village Palampur. Which activity do you feel most useful for the villagers? Give any two reasons.

Read & learn the chapters taught carefully.

NOTE:

1. Write the answers of General Questions on Separate Notebook.
2. Use a Separate file for Project Work.
3. Activity (a and b part) must be done on same Scrap book.



Have a great
Summer
VaCation!

