



ARMY PUBLIC SCHOOL CLEMENT TOWN

2024-2025

CLASS VIII

WINTER VACATION HOMEWORK

ENGLISH

- **Grammar-** Solve Try Out 8-11 in Tenses Chapter of Superb English Grammar (Pg No 71-73).
- **Vocabulary :** Write **10 Homophones** along with their meanings.
- **Writing Skill-** Read the chapter : **A Short Monsoon Diary** and record your experience of an incident that happened in Monsoon Season in the form of a Descriptive Paragraph in about 100-120 words.
- **Literature-**
- Read the Chapter “**The Fight**” and write a paragraph on the fight between Ranji and Suraj in the forest in about 100-120 words.
- Draw the character sketch of the school boy in the chapter **Jalebis** in about 100-120 words.
- **Poetry :**Read the poem - **On the Grasshopper and Cricket** and write the Poetic Devices used in the poem.
- Revise and learn lessons ,poems and Grammar topics taught in the class so far.

Note - Do Holiday Homework in English Grammar Notebook

हिंदी

प्रश्न 1. भारत की खोज पुस्तक से पाठ अंतिम दौर -2 तथा तनाव पढ़कर उनका सारांश अपने शब्दों में 100 से 150 शब्दों में लिखिए।

प्रश्न 2 .पाठ पानी की कहानी तथा बाज और साँप के प्रश्न उत्तर याद कीजिए।

प्रश्न 3. आपने शरदकालीन अवकाश में छुट्टियाँ कहाँ तथा किन कार्यों में व्यतीत की इसका विस्तारपूर्वक उल्लेख करते हुए अपने मित्र को पत्र लिखिए।

प्रश्न 4. व्याकरण पुस्तक से पाठ समास के प्रश्न 1,2,3,4 अपनी कक्षा कार्य उत्तर पुस्तिका में कीजिए।

नोट- छात्र दिया गया सभी कार्य अपनी कक्षा कार्य उत्तर पुस्तिका में करेंगे।

MATHEMATICS

Q1. Objective/Fill-in-the-Blank Questions

1. A quadrilateral with all sides equal and all angles right angles is called a _____.
2. The sum of the interior angles of a quadrilateral is _____ degrees.
3. The diagonals of a rhombus _____ (always/sometimes/never) bisect each other at right angles.
4. A trapezium has _____ pair(s) of parallel sides.
5. In a parallelogram, opposite sides are _____ and _____.

Q2. Verify whether the following equations are correct. Rewrite the incorrect equations correctly.

(i) $(a + 6)^2 = a^2 + 12a + 36$

(ii) $(2a)^2 + 5a = 4a + 5a$

Q3. Express the following in the standard form:

a) 0.000345

b) 450,000

c) 0.00000450.00000450.0000045

Q4. Fill in the blanks:

a) The sum of the interior angles of a quadrilateral is _____ degrees.

b) The sum of the exterior angles of any polygon is _____ degrees.

Q5. Find the unknown angle in the following quadrilaterals:

a) In a quadrilateral, three angles are 75° , 110° , and 95° . Find the fourth angle.

b) In a cyclic quadrilateral, three angles are 80° , 95° , and 85° . Find the fourth angle.

Q6. Solve and verify the solution:

$$2x + 3 = 5x - 12$$

Word Problem:

Q7. The surface area of a cylindrical tank is 132 square meters. If the radius of the base is 7 meters, find the height of the tank.

Q8. The difference between the squares of two numbers is 45. If one number is 9, find the other number

Q9. Example of a Simple Graph (Coordinate Graph)

Let's say we have the following data on the number of students who attended school over five days:

Day Number of Students

1 30

2 35

3 40

Day Number of Students

4 50

5 45

To graph this on the Cartesian plane:

1. Label the X-axis as "Days" and the Y-axis as "Number of Students".

2. Plot the points:

o (1, 30),

o (2, 35),

o (3, 40),

o (4, 50),

o (5, 45).

o

Q10. Draw a mind map of identities of factorization.

Q11. Write the formulas of direct and inverse proportion.

Q12. Differentiate between monomial, binomial, and trinomial with examples.

SCIENCE

WORKSHEET ON CHAPTER: 10 (SOUND) & 12 (SOME NATURAL PHENOMENA)

MULTIPLE CHOICE QUESTIONS:

1. Which of the following frequencies is audible by humans?
A. 25,818 Hz B. 20,408Hz C.28,460 Hz D. 19,892 Hz
2. Which of the following statements is **incorrect** regarding charges?
A. It can be transferred from one charged object to another object.
B. Like charges attract each other.
C. Charges can be produced by rubbing.
D. Charged object can transfer its charge to the earth by the process of earthing.
3. Which of the following structures in the human ear amplify the vibrations?
A. Eardrum B.Ear canal C.Ear ossicles(bones) D.Auditory nerves
4. Which of the following is a seismic zone or fault zone (earthquake)?
A. Kashmir B.Goa C.Orissa D.Chandigarh
5. Due to a meteor striking the moon, it breaks apart into numerous pieces. When will you hear the collision on the earth?
A. At the time of collision B. After 8 minutes
C. After 8 seconds D. Never
6. Earthquake is measured by which of the following instruments?
A. Seismograph B.Barometer C.Hygrometer D.Anemometer
7. Which of the following is **not** a characteristic of sound waves?
A. Amplitude B.Speed C.Pitch D.None of them
8. Which of the following statements is correct?
A. During thunderstorms we should carry an umbrella.
B. We should take shelter under tall trees during thunderstorms.

- C. We shouldn't lie on the ground, instead squat low on the ground.
- D. We should immediately come out of the safe place after hearing the last thunder.

9. Which of the following is **not** a harmful effect of noise pollution?

- A. Anxiety
- B. Hypertension
- C. Cancer
- D. Partial hearing impairment

10. Relation between time period and frequency is:

- A. $\text{Frequency} = \text{Time Period}$
- B. $\text{Frequency} = 1/\text{Time Period}$
- C. $\text{Frequency} > \text{Time Period}$
- D. $\text{Frequency} < \text{Time Period}$

SHORT ANSWER TYPE QUESTIONS:

11. What is a lightning conductor? How does it protect a building during thunderstorms?

12. "We can't speak during inhalation of air." Is this statement correct? Justify your answer by explaining the production of sound in humans.

13. How can we make "Quake Safe" buildings in earthquake prone areas or seismic zones? List any 4 points.

14. Will a vibrating wooden scale also produce sound? If yes then why can't we hear it?

15. Draw sound waves to show sound produced by:

- (A) Buzzing of bee
- (B) Roar of lion

LONG ANSWER TYPE QUESTIONS:

16. An object oscillates 1200 times in 2 minutes. What is its frequency and time period? Will this sound be audible to humans?

17. During thunderstorms lightning is seen earlier while thunder is heard after some time.

Explain how lightning occurs during thunderstorms. Why do we hear thunder after sometime?

18. How can noise pollution lead to hearing impairment? Enlist some measures to limit noise pollution.

19. Name a device used to find if an object is carrying charge or not. Also explain its structure and working.

20. Define the following terms with respect to earthquake:

- (A) Epicentre
- (B) Focus
- (C) Seismic waves
- (D) Richter scale
- (E) Earthquake intensity

SUBJECT ENRICHMENT (COMPETENCY BASED QUESTIONS):

21. A person uses three different whistles to produce sound frequencies X, Y and Z respectively. Sound X and Y can't be heard by him while he could easily hear sound Z. A flock of pigeons flying nearby came to him after they heard X sound. Also he came to know that Y sound is used in the medical field to study the internal organs.

(A) What is the audible range of frequencies for humans?

(B) What is the possible frequency range of sound X? Name any other animals which can hear sound X.

(C) What type of sound is Y? List any other possible use of sound Y other than its use in the medical field.

22. The tectonic plates that make up the earth's crust are moving constantly. As the edges of these plates slide against each other in fault zones, friction can slow them down, leading to the buildup of pressure over long periods of time. When the force of movement finally overcomes the friction, sections of the crust suddenly break or become displaced, releasing the pent-up pressure in the form of seismic waves. This is a naturally occurring earthquake, sometimes referred to as a tectonic earthquake. Earthquakes may also occur due to volcanic eruptions, underground explosions or collapse of mines or caverns. Its magnitude is measured on the Richter scale, ranging from 0-9.

(A) What are the natural calamities caused by earthquakes?

(B) Name the fault zones present in the Indian subcontinent.

(C) What is the difference between an earthquake's magnitude and its intensity?

Social science

Note: Homework to be done in fair note book

1. Read chapter 8 Making of the National movement and write about 5-10 lines on.

1. Jallianwala Bagh Massacre.
2. Non-Cooperation movement
3. Civil Disobedience movement (Dandi March)
4. Quit India Movement.

2. Make flow charts on following topics

1. Important centres and their leaders in the Revolt of 1857.
2. Factors affecting distribution of population.

3. Revise and learn the complete syllabus given for Annual Exam.

संस्कृत

प्रश्न 1-क: रक्षति कः रक्षितः" पाठ के आधार पर लिखिए कि आप स्वच्छता अभियान के प्रति लोगों को कैसे जागरूक करेंगे ।

प्रश्न 2- अधोलिखितानां प्रश्नानां उत्तराणि एकपदेन लिखत -

- (क) बालाः अवकरं कुत्र क्षिपन्ति ?
(ख) "विद्युद्भावे " शब्दस्य अर्थः कः ?
(ग) केन पीडितः वैभवः बहिरागतः ?
(घ) वयं शिक्षिताः अपि कथमाचरामः ?
(ङ) अद्य निदाघताप तपतस्य किम् शुष्कताम् याति ?

प्रश्न 3- अधोलिखितानां प्रश्नानां उत्तराणि एकपदेन लिखत -

- (क) रोजलिन् आगत्य किम् करोति ?
(ख) अस्माभिः केषां निर्माणाय वृक्षाः कर्त्यन्ते ?
(ग) अन्त जोसेफः पर्यावरण रक्षायै कः उपायः बोधयति ?

प्रश्न 4 -अधोलिखित पदेषु सन्धिं सन्धिच्छेदं वा कुरुत-

- (क) ग्रीष्मर्तौ =+.....
(ख) बहिरागत्यापि =+.....
(ग) काम् + चित् =.....
(घ) तद् + वनम् =.....

प्रश्न 5 - विशेष्य विशेषण पदानि मेलयत-

विशेषण पदानि	विशेष्य पदानि
पिहिते	क्षति
स्वच्छता	अवकरम्
अन्यत्	अवकरकंडोले
महती	स्वास्थ्यकरी

प्रश्न 6 - "क्षितौ राजते भारतस्वर्ण भूमि" पाठ के चार श्लोकों का सस्वर वाचन करके याद करेंगे ।

प्रश्न 7- ईकारांत (नदी) शब्दरूप याद करके नोटबुक में लिखेंगे ।

नोट- सम्पूर्ण कार्य संस्कृत की उत्तर पुस्तिका में लिखेंगे ।