



DELHI PUBLIC SCHOOL VISAKHAPATNAM
ASSIGNMENT
April - May 2024
Class: IX



Subject: ENGLISH

Read the passage given on page no. 24 of your Work Book (WORDS AND EXPRESSIONS) and answer the questions given below:

- i) How could Beethoven compose music despite his loss of hearing?
- ii) What realisation made Beethoven continue his passion for music with more determination?
- iii) Which significant aspect of Beethoven's character enabled him to persevere despite his challenges?
- iv) How did Beethoven's upbringing contribute to his musical talents and resilience?
- v) What insights can be gained from Beethoven's life and how he confronted adversity?

1. Here is a short story given for you as a sample. Write the story in your notebook. Imagine that you were born in the era of Mahatma Gandhi. Write down the story of a child of your age who contributed a lot in India's struggle for independence. Give it a suitable title.

The Little Torchbearer: A Child's Contribution to India's Independence Movement

Once upon a time, in the era of Mahatma Gandhi, there lived a young boy named Arjun in a small village of India. Arjun's journey towards becoming a torchbearer of India's independence began when he witnessed the injustices inflicted upon his fellow villagers by the British colonial rulers. Determined to bring about change, Arjun joined the local group of freedom fighters.

Arjun's most significant contribution to the independence movement came during the famous Salt March. Inspired by Gandhi's principles of nonviolence and civil disobedience, Arjun felt a sense of empowerment like never before. His unwavering dedication and selflessness served as a beacon of hope for his fellow countrymen, igniting the flames of patriotism in their hearts.

Finally, India emerged victorious in its quest for independence. Though his name may not be written in the pages of history books, Arjun's contribution was immeasurable. And indeed, Arjun, the little torchbearer, had ignited the flame of freedom that would forever illuminate the spirit of India.

Based upon the sample given, Write down the story of a child who was born in the era of freedom fighters and witnessed India rebuilding itself after independence. Give it a suitable title.

2. Convert the following sentences into Indirect Speech:

- i) The manager said, "Can you submit the report by tomorrow?"
 - ii) Sarah said, "We'll meet you at the restaurant after we finish shopping."
 - iii) The mother warned, "Be careful crossing the street."
 - iv) Jack said, "Let's go for a walk."
 - v) The audience member exclaimed, "What a talented musician he is!"
3. a) In the following sentences, find out which part of the sentence has an error and write the correct answers.
- i) This kind of behaviour (a)/ has not been seen here (b)/ since the last four years.(c)
 - ii) To transport goods (a)/ by sea is cheaper (b)/ than land.(c)
 - iii) All the boys (a)/ returned back home (b)/ well in time for lunch.(c)

b) Write the meaning of the italicised bold part of the sentence:

- i) Deepak has a *penchant* for fine poetry.
- ii) Man has to *encounter* many hardships in life.

4. Write the names of five musical instruments of Assam and its musicians with its pictures.

5. Write a paragraph in about 100-120 words, along with a pictorial illustration on any one of the topics:

- i) A Freedom Fighter from Assam
- ii) A Great Writer in English from Assam
- iii) Any Musician of Repute from Assam
- iv) Any Folk Art Form of Assam
- v) Any Great Poet in English from Assam

- vi) About the Most Exquisite City of Assam
- vii) Any Handicraft from Assam
- viii) Cuisine of Assam
- ix) Special Crops of Assam
- x) The Water Resources of Assam

Subject: MATHEMATICS

1. Represent $\sqrt{5}$ on number line.
2. Write any two irrational numbers and two rational numbers between $\frac{7}{5}$ and $\frac{7}{3}$.
3. Simplify $\frac{1}{2+\sqrt{3}} + \frac{2}{\sqrt{5}-\sqrt{3}} + \frac{1}{2-\sqrt{5}}$
4. Simplify $13^5\sqrt{32} - 7^4\sqrt{625} + \sqrt[3]{729}$.
5. Express the following in the form of $\frac{p}{q}$.
6. (i). $3.\overline{32}$ (ii). $0.6\overline{7}$ (iii). $21.\overline{43}$
7. Find a, b if $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a - b\sqrt{3}$.
8. Convert in to decimal form (i) $\frac{28}{3}$ (ii) $\frac{123}{11}$ (iii) $\frac{173}{4}$
9. Find the value of k in $x + k$ is a factor of $x^3 + kx^2 + 5x + 2k + 3$.
10. Expand (i). $(2a - 3b)^3$ (ii). $(\frac{3}{2}x + 1)^3$
11. Multiply the following
 - (i). $(3 + \sqrt{3})(3 - \sqrt{3})$
 - (ii). $(2 - \sqrt{3})(3 + \sqrt{5})$
 - (iii). $(5 + 2\sqrt{3})(7 - 6\sqrt{2})$
12. Rationalize the denominator $\frac{4}{7\sqrt{5}-5\sqrt{7}}$.
13. If $6^{x+1} = (\sqrt{36})^{3x-1}$ then find x.
14. Prove that $\frac{2^{30}+2^{29}+2^{28}}{2^{31}+2^{30}-2^{29}} = \frac{7}{10}$
15. $(\frac{3}{4})^3(\frac{16}{9})^7 = (\frac{4}{3})^{x-2}$ find x.

Subject: PHYSICS

1. In which of the following cases of motions, the distance moved and the magnitude of displacement are equal?
 - a). If the car is moving on straight road
 - b). if the car is moving in circular path
 - c). The pendulum is moving to and fro.
 - d). The earth is revolving around the sun.
2. The numerical ratio of displacement to distance for a moving object is
 - a). Always less than 1.
 - b). Always equal to 1
 - c). Always more than 1.
 - d). Equal or less than 1.
3. The velocity time graph of a body is parallel to the time axis. The body is
 - a). At rest.
 - b). Having uniform acceleration
 - c). Having zero acceleration.
 - d). Having non uniform acceleration.
4. The displacement of a moving object in a given interval of time is zero. Would the distance travelled by the object also be zero? Justify your answer.
5. A motorcyclist drives from A to B with uniform speed of 30 km/h and returns back with a speed of 20km/h. Find its average speed.
6. An object starting from rest travels 20 m in first 2 s and 160 m in next 4 s. What will be the velocity after 7 s from the start.
7. An athlete completes one round of a circular track of diameter 200 m in 40 s. What will be the distance covered and the displacement at the end of 2 minutes 20 s?.

Subject: CHEMISTRY

Assignment IX chem April

1. Give reason for the following:
 - a. A sponge , though a solid, can be compressed.
 - b. Sugar takes the shape of the container though it is a solid.
 - c. CNG can be filled in a small cylinder.
 - d. Density of solids is mostly higher than that of liquids.
2. Diffusion of gases in water is essential. Explain the term diffusion and give reason.
3. State which property of gas is used in supplying oxygen cylinders to hospitals.

- A substance melts at 5°C and boils at 150°C. What is its physical state at room temperature?
- The melting point of three solids X, Y, Z are 298K, 314K and 398K respectively. Arrange them in increasing order of interparticle force of attraction.
- Define sublimation. Draw a labelled diagram to show sublimation. Mention some examples of sublimating solids.

Subject: BIOLOGY

- What is cell theory?
- Why is the cell called the structural and functional unit of life?
- What is the cell made up of?
- What is osmosis? What happens to the cell when it is put in hypotonic, hypertonic and isotonic solutions?
- What is endocytosis?
- What is plasmolysis?
- Explain the structure and function of a nucleus with the help of a neat labelled diagram.
- Differentiate between a plant cell and an animal cell.
- Differentiate between a prokaryotic cell and a eukaryotic cell.
- Draw neat labelled diagrams of a plant cell and an animal cell.

Subject: SOCIAL SCIENCE

- Collect information about the silk route.
- Explain the reason for the 2-hour time difference in local time between Arunachal Pradesh and Gujarat.
- How is India's geographical location helped India in attaining an important place in the world?
- Why is democracy considered to be the best option among all other political systems available in the world?
- Why Zimbabwe cannot be called a democratic country? Give reasons.
- Why is democracy called a "government by discussion"?
- What are the drawbacks of green revolution?
- Suggest some measures to increase non farming activities.
- The farm labourers are exploited in India. Do you agree with the statement? Justify the statement. Suggest any 2 ways to protect the exploitation of farm labourers.
- Describe the physical features of India with the help of pictures.

Subject: हिंदी (द्वितीय भाषा)

- शब्द रचना के आधार पर बताइए कि कौन-सा शब्द योगरूढ़ है?
i) विनिमय ii) जलज iii) पवित्र 1v) कुशल
- प्रयोग के आधार पर शब्द के _____ भेद होते हैं।
i) दो ii) चार iii) पाँच 1v) तीन
- जब कोई शब्द पद का रूप लेता है तो _____।
i) शब्द पद नहीं बन सकता है। ii) उन पर व्याकरण नियमों का कोई प्रभाव नहीं पड़ता।
iii) स्वतंत्र रहने के कारण उस पर व्याकरण के नियम लागू होते हैं।
iv) शब्दों की स्वतंत्रता समाप्त हो जाती है और वह व्याकरण के नियमों में बंध जाता है।
- शब्द भाषा में विशिष्ट स्थान रखते हैं-
i) क्योंकि वे हमारे विचारों के आदान-प्रदान में सहायक है।
ii) क्योंकि वे निश्चित अर्थ धारक होने के साथ-साथ उपयोगी भी हैं।
iii) क्योंकि वे स्वतंत्र होते हैं। iv) क्योंकि उनका अर्थ होता है।
- निम्नलिखित शब्दों में 'अनुस्वार' का उचित प्रयोग कर शब्द पुनः लिखिए।
पख, रुपांतरित, घटाघर, अदर, पतंग, सभ्रात, सक्रमण, गोबिंदु
- निम्नलिखित शब्दों में 'अनुनासिक' का उचित प्रयोग कर शब्द पुनः लिखिए।
आसु, कुआ, मेहदी, आचल, भवर, दात, बूद, चाद
- बाज़ार में खड़े लोगों के मन में वृद्धा के प्रति घृणा पर अपनी प्रतिक्रिया प्रकट कीजिए। दुःख का अधिकार पाठ के आधार पर।
- दुःख का अधिकार पाठ के आधार पर बताइए कि शोक के समय धनी और निर्धन की दशा में क्या अंतर होता है?
- अनेक साधु-सन्तों के नाम लेकर कवि क्या स्पष्ट करना चाहते हैं? रैदास के पद के आधार पर लिखिए।
- कवि रैदास अन्य कवियों जैसे नामदेव, कबीर, त्रिलोचन, सधना एवं सैन की चर्चा क्यों करते हैं?
- कवि रैदास ने अपने पद के माध्यम से तत्कालीन समाज का चित्रण किस प्रकार किया है?

Subject: తెలుగు (ద్వితీయ భాష)

1. ఈ క్రింది పద్యానికి ప్రతిపదార్థం రాయండి

విమలయశోనిదీ! పురుష వృత్తి.....

2. ఈ క్రింది ప్రశ్నలకు సమాధానాలు రాయండి

1. మీరు నిజం చెప్పినప్పుడు మీ తల్లిదండ్రులు గానీ , ఉపాధ్యాయులు గానీ, మిత్రులు గానీ, మిమ్మల్ని ప్రశంసించినప్పుడు మీరు ఎలా అనుభూతి చెందుతారు తెలుపుతూ వ్యాసం రాయండి.

2. కథలో ఇల్లాలు తన పేరు మర్చిపోవడాన్ని మీరు సమర్థిస్తారా? ఎందువల్ల?

లేఖ : నీరుని వృధా చేయకూడదని, భవిష్యత్తులో నీటి కొరత ఏర్పడితే ఎలాంటి పరిణామాలు ఎదుర్కోవాలో చెబుతూ, నీటిని జాగ్రత్తగా ఉపయోగించుకోవాలని తెలియజేస్తూ మిత్రుడికి లేఖ రాయండి.

పర్యాయ పదాలు : 1. భూమి 2. భార్య 3. తనయుని 4. ఏనుగు

Subject: సంస్కృతమ్

1. क. कृ - अस् धातुः पञ्च लकारान् लिखत |

ख. किम् (पुं - स्त्री - नपुंसक), अस्मद्, युष्मद् शब्दान् लिखत |

2. प्रश्ननिर्माणम् 10 प्रश्नाः लिखत | (भारती वसन्त गीतिः- स्वर्णकाकः) (Together with book)

3. एकं पत्रं पूर्यित्वा पत्रं पुनः लिखत |

4. एकं चित्रं दृष्ट्वा संस्कृते पञ्च वाक्यानि लिखत |

5. एकं घटनाक्रमम् लिखत | (स्वर्णकाकः) (Together with book)