

DAV VEDANTA INTERNATIONAL SCHOOL LANJIGARH

HOLIDAY HW

CLASS: IX-B

HOLIDAY HOME WORK [CLASS-IX, ENGLISH]

Session -2024-25 (Summer Vacation)

A. Answer the following questions in about 100 to 120 words.

1. Evaluate the story 'The Fun They had' to be a science fiction story.
2. Compare the two types of learning as we find in the story.
Which one do you think is better and why? Discuss with reference to the incident from the story.
3. "Paperless book is ideal for saving trees, but do you think that paper books make a positive impact on the students"-Discuss the statement with reference to the story.
4. Bring out the contrast and similarities between the two roads mentioned in the poem. [The Road Not Taken]
5. Bring out the symbolism in the poem "The Road Not taken".

B. Descriptive Paragraph Writing

1. **Write a descriptive paragraph, in about 100-150 words, on 'Inspiring Teacher'. Take the information given below in the input.**

Teacher in English literature — first person who has the highest knowledge of English linguistic — specialty in calligraphy and philosophy—excellent personality, speaking style, very friendly in teaching—didn't have many rules in his class — he let us feel and try the words—humble heart and persistence — always tried our best in the class –admired by his attitude towards his students

2. **Write a descriptive paragraph, in about 100-150 words, about your hometown. Take the information given below in the input.**

Shimla — northern part of India — oak tree and green lawn —hills covered in pine trees — streets were going — snowy winters — smell wood burning in fireplaces — in summer — people walking dogs or jogging — secure and comfortable — visit Shimla once a year feel nostalgic

C. Grammar

1. Write all types of DETERMINERS along with two examples of each.

Holiday HW -IX-Hindi

1. अपने मनपसंद किसी विषय पर सुंदर अक्षरों में लिखें -

-स्वरचित कविता अथवा कहानी ।

-अनमोल वचन, दोहे आदि।

2. अनुच्छेद लिखिए-

क) समय अमूल्य धन है।

ख) भ्रष्टाचार-एक ज्वलंत समस्या

ग) स्वरोजगार

3. आपके जन्मदिन पर आपके मित्र द्वारा भेजे गए उपहार के लिए आभार प्रकट करते हुए पत्र लिखिए।

4. क) परीक्षा पर दो मित्रों के बीच का संवाद लिखिए।

ख) बिजली कटौती पर दो पड़ोसियों का संवाद

5. 10 उपसर्ग तथा 10 प्रत्यय का प्रयोग कर दो-दो शब्द लिखिए।

6. कक्षा में कराए गए सभी कार्यों का पुनराभ्यास कीजिए।

Holiday homework

1. पाथेयं पाठस्य श्लोकानां अन्वयं लिखन्तु |page no-20-21
2. तरवे नस्मोस्तु पाठस्य श्लोकान् लिखन्तु ।
3. यणसंधि ,अयादि संधेः पञ्च-पञ्च उदाहरणानि लिखन्तु ।
4. विसर्गसंधेः नियमान् लिखन्तु ।
5. धातुरूपाणि -नम, प्रच्छ,अस् (पञ्चलकारेषु) रूपाणि लिखन्तु ।
आत्मनेपदी - सेव् धातोः लट् ,लृट् लकारं लिखन्तु ।
6. अधोलिखित अव्ययपदानि प्रयुज्य वाक्यरचनां कुर्वन्तु ।
(अन्यत्र ,उभयत्र ,एकदा ,पुरा ,श्वः ,कति ,कुतः,च,अद्य ,हयः)
7. 1-100 संस्कृते संख्यां लिखन्तु ।

Holiday homework
Class IX
Biology

1. Make a model of simple microscope showing its functionality.
2. Show an activity to demonstrate the process of osmosis in a cell when it is placed in sugar and salt solution along with their pictures.
3. A single cell can perform all the functions of life, why do we need many cells?
4. What will happen
 - a. If nucleus is not there, what would happen to the cell?
 - b. if chloroplast is taken out from the cell?
5. Do plant cell need a very large vacuole? Justify your answer.
6. What happens to substances such as CO₂ or water when moving in and out of a cell? Discuss.

CHEMISTRY HHW

Chem hhw

Chapter 1

1mark

1) Which among the following is not a subliminal substance?

- (A) Common salt
- (B) Camphor
- (C) Ammonium chloride
- (D) Naphthalene balls

2) The process in which a solid substance directly converts into vapour without passing through the liquid state is called?

- (A) deposition
- (B) sublimation
- (C) vapourisation
- (D) melting

3) Seema visited a Natural Gas Compressing Unit and found that the gas can be liquefied under specific conditions of temperature and pressure. While sharing her experience with friends she got confused, Help her to identify the correct set of conditions

- (A) Low temperature, low pressure
- (B) High temperature, low pressure
- (C) Low temperature, high pressure
- (D) High temperature, high pressure

4) Choose the correct statement of following

- (A) conversion of solid into vapours without passing through the liquid state is called sublimation
- (B) conversion of vapours into solid without passing through the liquid state is called vaporization
- (C) conversion of vapours into solid without passing through the liquid state is called freezing.
- (D) conversion of solid into liquid is called sublimation

5) Matter are particulate in nature

- a) true
- b) false

2 mark

1) A student start heating the beaker containing ice and water .the correct curve for the temperature vs time is

2) Why does the temperature of a substance remain constant during its melting point or boiling point?

5 mark

1) Draw the interconversion states of matter (3)

ii) define diffusion. (1)

iii) what do you mean by latent heat? (1)

2

1) Difference between evaporation and boiling (2) (3 points)

2) what do you mean by evaporation (1)

What are factors affecting evaporation (2)

6 mark

1) Classify the following into osmosis/diffusion

(a) Swelling up of a raisin on keeping in water.

(b) Spreading of the virus on sneezing.

(c) Shrinking of grapes kept in thick sugar syrup.

(D) Preserving pickles in salt.

(E) Spreading of the smell of cake being baked throughout the house.

(F) Aquatic animals use oxygen dissolved in water during respiration.

Ch-1 Matter in Our Surroundings

(VSA) 1×6=6

1) On increasing the temperature of solids the _____ of the particles increases.

- (a) Potential energy
- (b) Kinetic energy
- (c) Electric energy
- (d) Magnetic energy

2) The energy supplied by heat _____
the force of attraction between the particles.

3) Convert the following into Kelvin:

- (a) 208°C
- (b) 368°C

4) Convert the following into Celsius :

- (a) 273k
- (b) 368k

5) How can we liquefy gas ?

6) Why clothes dry up faster in summer than in winter or spring?

(SA) 3×3=9

7) Define the following:

- (a) latent heat of vaporisation
- (b) Sublimation
- (c) Latent heat of fusion

8) Differentiate between solid, liquid and gas.

9) How evaporation cause cooling?

(LA) 2×5=10

10) Explain evaporation and its factor affecting with examples.

11) Explain that particles of matter are very small with an activity.

Subject: Physics

1. Write the difference between Distance and Displacement.
2. Write the difference between speed and velocity.
3. A body is moving in a square field ABCD of side 10 meter. Calculate distance and displacement in following cases. (A) From A to B (B) From A to C (C) ABCDA
4. Calculate the distance and displacement of body moving one fourth part of its complete circular path of radius 21 cm.
5. A body is moving in a circular path of radius R. What will be distance and displacement when it completes half of its revolution.
6. A body travels a distance of 3 km towards the east, then 4 km towards the north and finally 9 km towards the east. What is the total distance and displacement.
7. A farmer moves along the boundary of square field of side 15 meter in 30 seconds. What will be magnitude of distance and displacement at the end of 2 minutes 15 seconds.
8. A farmer moves along the boundary of a square field of side 10 meter in 40 seconds. What will be the magnitude of displacement of farmer at the end of 2 minutes 20 seconds his initial position.
9. An athlete completes one round of circular track of diameter 200 meter in 40 seconds. What will be distance and displacement at the end of 2 minutes 20 seconds?
10. (A) Define uniform and non-uniform motion
(B) Define acceleration and write its formal and S.I. unit.

Activity:

Prepare a chart to write the S.I. unit of at least 30 physical quantities.

DAV VEDANTA INTERNATIONAL SCHOOL, LANJIGARH
HOLIDAY HW SUB : MATHS CLASS : IX (2024-25)

1. Which of the following is an irrational?

(a) $\sqrt{\frac{4}{9}}$ (b) $\frac{\sqrt{12}}{\sqrt{3}}$ (c) $\sqrt{7}$ (d) $\sqrt{81}$

2. Which of the following is an irrational?

(a) 0.14 (b) $0.14\overline{16}$ (c) $0.\overline{1416}$ (d) 0.4014001400014....

3. The value of $1.999\dots$ in the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$, is

(a) $\frac{19}{10}$ (b) $\frac{1999}{1000}$ (c) 2 (d) $\frac{1}{9}$

4. $1.272727\dots$ can be expressed in rational form as

(a) $\frac{14}{99}$ (b) $\frac{14}{11}$ (c) $\frac{11}{14}$ (d) $\frac{99}{14}$

5. Simplify $\frac{2^{n+4} - 2(2^n)}{2(2^{n+3})}$.

(a) $2^{n+1} - \frac{1}{8}$ (b) -2^{n+1} (c) $1 - 2^n$ (d) $\frac{7}{8}$

6. If $x = 1 + \sqrt{2}$, then the value of $(x - \frac{1}{x})^2$ is

(a) 2 (b) 4 (c) 6 (d) 8

7. The value of $2.\overline{6} - 0.\overline{9}$ is

(a) $\frac{4}{3}$ (b) $\frac{1}{3}$ (c) $\frac{5}{3}$ (d) $\frac{7}{3}$

8. If $0.142857142857\dots$ express in the form of $\frac{m}{n}$, then the value of $(2m+n)$ is

(a) 1 (b) 2 (c) 7 (d) 9

9. $\sqrt[4]{\sqrt[3]{2^2}}$ equals to

(a) $2^{-\frac{1}{6}}$ (b) 2^{-6} (c) $2^{\frac{1}{6}}$ (d) 2^6

10. If $x = 7 + 4\sqrt{3}$, then what is the value of the expression $x + \frac{1}{x}$?

11. Simplify $\frac{1}{3+\sqrt{5}}$.

12. Divide $(\sqrt{3} + \sqrt{7})$ by $(\sqrt{3} - \sqrt{7})$.

13. Evaluate $\frac{6}{\sqrt{12}-\sqrt{3}}$.

14. Simplify the expression $(4\sqrt{5} - 3\sqrt{2})(3\sqrt{5} + 5\sqrt{2})$.

15. Find the value of $(256)^{0.16} \times (256)^{0.09}$.

16. Simplify $(25)^{1/3} \times (5)^{1/3}$.

17. Find the value of $\frac{\sqrt[4]{16}}{\sqrt[4]{81}}$.

18. Show that $\frac{1}{1+x^{a-b}} + \frac{1}{1+x^{b-a}} = 1$.

19. Can we write 0 in the form of p/q?

- a. Yes b. No c. cannot be explained d. None of the above

20. In between any two numbers there are:

- a. Only one rational number b. Many rational numbers
c. Infinite rational numbers d. No rational number

21. Every rational number is:

- a. Whole number b. Natural number
c. an Integer d. Real number

22. Between any two rational numbers

- (a) There is no rational number (b) there is exactly one rational number
(c) There are infinitely many rational numbers
(d) There is no irrational number

23. A rational number between $\sqrt{2}$ and $\sqrt{3}$ is,

- (A) $\frac{\sqrt{2}+\sqrt{3}}{2}$ (B) $\frac{\sqrt{2} \times \sqrt{3}}{2}$ (C) 1.5 (D) 1.8.

24. Express $0.\overline{235}$ in $\frac{p}{q}$ form.

25. If $a^x = b$, $b^y = c$ and $xyz = 1$, then what is the value of c^z ?

26. $\sqrt[5]{243x^{10}y^5z^{10}}$

27. $\frac{4}{(216)^{-2/3}} + \frac{4}{(256)^{-3/4}} + \frac{4}{(243)^{-1/5}}$

28. Prove that $\frac{(2)^n + (2)^{n-1}}{(2)^{n+1} - (2)^n} = 3/2$.

29. Find the values of x in each of the following:

(i) $(5)^{x-2} \times (3)^{2x-3} = 135$ (ii) $(5)^{x-4} \times (2)^{x-7} = 1250$.

(iii) $(2)^{5x} \div (2)^x = \sqrt[5]{2^{20}}$ (iv) $\left(\frac{3}{5}\right)^x \times \left(\frac{5}{3}\right)^{2x} = \frac{125}{27}$

30. For any +ve real number x, find the value of $\left(\frac{x^a}{x^b}\right)^{a+b} \times \left(\frac{x^b}{x^c}\right)^{b+c} \times \left(\frac{x^c}{x^a}\right)^{c+a}$.

31. Simplify $\left[\left\{(625)^{1/2}\right\}^{-1/4}\right]^2$.

32. Find the value of $(256)^{0.16} \times (256)^{0.09}$.

33. Evaluate: $\frac{2^{40} + 2^{39} + 2^{38}}{2^{41} + 2^{40} - 2^{39}}$.

34. Prove that: $\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2} = 5$.

35. P.T: $\frac{1}{1+\sqrt{2}} + \frac{1}{\sqrt{2}+\sqrt{3}} + \frac{1}{\sqrt{3}+\sqrt{4}} + \frac{1}{\sqrt{4}+\sqrt{5}} + \frac{1}{\sqrt{5}+\sqrt{6}} + \frac{1}{\sqrt{6}+\sqrt{7}} + \frac{1}{\sqrt{7}+\sqrt{8}} + \frac{1}{\sqrt{8}+\sqrt{9}} = 2$.

36. If $x = 2 + \sqrt{3}$, find the value of $x^2 + \frac{1}{x^2}$.

37. If $x = 1 + \sqrt{2}$, find the value of $\left(x - \frac{1}{x}\right)^3$.

38. If $x = 1 - \sqrt{2}$, find the value of $x^3 - \frac{1}{x^3}$.

39. The irrational number between 2022 and 2023 is

40. If $abc=1$, then P.T $\frac{1}{1+a+b^{-1}} + \frac{1}{1+b+c^{-1}} + \frac{1}{1+c+a^{-1}} = 1$.

ACTIVITIES : (Construct on A4 size paper)

1. Represent $\sqrt{3}$ on the number line. (take 1 unit = 4 cm)
2. Represent $\sqrt{5}$ on the number line. (take 1 unit = 3 cm)
3. Represent $\sqrt{10}$ on the number line. (take 1 unit = 2 cm)

Project :

2. Mathematical relations between different numbers.(i.e, Even, Odd, Prime, composite, Perfect squares and perfect cubes)
3. Contribution of Indian mathematicians on number system.

SUBJECT- SOCIAL SCIENCE

STD- IX

1. The sun rises two hours earlier in Arunachal Pradesh as compare to Gujarat in the west but the watches show the same time. How does this happen? (Geo)
2. The central location of India at the head of the Indian Ocean is considered of great significance. Why? (Geo)
3. On a political map of India, label all the states and union territories with their capitals. (Geo)
4. On a political map of India, mark and label latitudinal and longitudinal extent, tropic of cancer and standard meridian and our neighboring countries. (Geo)
5. What are the different ways of increasing production on the same piece of land? Use examples to explain. (Eco)
6. What are the non-farm production activities taking place in your region? Make a short list. (Eco)
7. Draw up a list of democratic rights we enjoyed today whose origins could be traced to the French Revolution.
8. Make your own 20 MCQs from first 2 units of French Revolution.
9. Make a flow chart how French society was organised.
10. Make a report on Election 2024-25.
 - i. Name of the Constituency
 - ii. Name of the leaders and their Parties and symbols
 - iii. Explain about election campaign

HHW-IT

1. Write about Sustainable Development Goals (SDGs) 2030
2. Write an informative note on "Blue Eye Technology".

Holiday Assessment

ନବମ ଶ୍ରେଣୀ

୧- ତୁମ ଅଞ୍ଚଳରେ ହେଉଥିବା ଯେ କୌଣସି ଗୋଟିଏ ସମସ୍ୟା ସମ୍ପର୍କରେ ବର୍ଣ୍ଣନା କରି ବିଭାଗୀୟ ମୁଖ୍ୟ ଅଧିକାରୀଙ୍କ ନିକଟକୁ ଦରଖାସ୍ତ ଲେଖ ।

୨- ଓଡ଼ିଆ ସାହିତ୍ୟର ପାଞ୍ଚୋଟି କୃଷ୍ଣ କାବ୍ୟ ର ନାମ ଲେଖି, ପାଞ୍ଚ ଧାଡ଼ି ଲେଖାଏଁ ଉକ୍ତ କାବ୍ୟ ସମ୍ପର୍କରେ ଲେଖ (ତିତ୍ର ସହ) ।

୩. ପ୍ରକୃତିକୁ ଆଧାର କରି ଗୋଟିଏ କବିତା ଲେଖ ।

୪. ତୁମ ଜନ୍ମ ଦିନରେ ତୁମ ବନ୍ଧୁ ପ୍ରିୟଜନଙ୍କୁ ତୁମେ ଘରକୁ ନିମନ୍ତ୍ରଣ କରିଛ । ତୁମ ଅତିଥିଙ୍କୁ ତୁମେ କିପରି ପରିଚର୍ଚ୍ଚା କରିବ, ସେ ବିଷୟରେ ଗୋଟିଏ ବିବରଣୀ ପ୍ରସ୍ତୁତ କର ।

୫. ପାଞ୍ଚୋଟି ରୁଢ଼ି କୁ ବ୍ୟବହାର କରି ଏକ କ୍ଷୁଦ୍ରଗଳ୍ପ ବା ଅନୁକ୍ଷେପ ଚିଏ ଲେଖ ।