

## **PODAR INTERNATIONAL SCHOOL, NANDED**

### **Vacation Homework for Grade IX-ABCDE**

**Q.1 Answer the following questions in 30-40 words each.**

- a. Why was Margie doing badly in Geography? What did the county inspector do to help her ?**
- b. How does Tommy describe the old kind of school?**
- c. What kind of teachers did Margie and Tommy have?**
- d. Write 10 new words and their meanings used in the lesson 'The Fun They Had.**
- e. What was the poet's dilemma in the poem 'The Road Not Taken' ?**
- f. What was the poet's opinion about both the roads?**
- g. What do the roads represent?**
- h. Why did the poet choose that road?**
- i. Write new words and their meanings used in the poem 'The Road Not Taken.**
- j. What is the message of the poem 'The Road Not Taken'?**

**Q.2 Answer the following questions in 100-150 words.**

- a. Why did Margie hate school? Why did she think the old kind of school must have been fun?**
- b. How does one way lead on to another? Is it easier to come back to the path we have left for another day?**
- c. Why does the poet suggest the people that they have to be strong? Write your answer in the context of the poem, 'Wind'.**
- d. What changes do you notice in the behaviour of the child, once he is separated from his parents in the story "The Lost Child" ?**
- e. How can you say that Toto was a mischievous pet, cite examples from the story to support your answer.**

## **Writing skills**

**a. You are Radha G, a member of NGO AWAAZ. Write a letter to the editor of a national daily for a public movement to clean the Yamuna river. (You must introduce yourself, describe how the people are to be blamed for polluting the river and suggest the need for installing water treatment plant to clean the river).**

**b. Write a letter to the editor of Deccan Chronical, highlighting the need to ban the use of plastic bags. You are Satish Deshmukh of 27 B, Sector 9 ,Shastri Nagar, Ahemadnagar.**

## **French Revolution (Vacation Assignment)**

### **Question 1**

- (a) What was the most important privilege enjoyed by the members of the first two estates?**
- (b) Which cities became prosperous because of slave trade?**
- (c) Who authored the book 'The Spirit of Laws'? What was proposed in this book?**
- (d) What is 'Tithe'?**
- (e) Who composed the 'Marseillaise', the national anthem of France?**
- (f) What is the 'guillotine'?**
- (g) Which rights were 'natural and inalienable' rights according to the French Constitution?**

### **Question 2**

- (a) What led to the emergence of the middle class in the 18th century?**
- (b) Describe the circumstances that led to King Louis XVI to increase taxes.**
- (c) What was the subsistence crisis? Why did it occur in France during the Old Regime?**

### **Question 3**

- (a) Despite various reforms introduced by Robespierre, why was his reign termed as the reign of terror? Explain any five points.**

## BIO WORK SHEET FUNDAMENTAL UNIT OF LIFE

- 1 . Write different types of plastids?
2. Give one example of osmosis.
3. What is plasmolysis in a plant cell?
4. Write the two cells which keep on changing their cells.
5. Expand DNA.
6. Why plant cells have large shaped vacuole?
7. Why is endocytosis found in animals only?
8. What happens if someone drinks salty water?
9. Write the two conditions for osmosis.
10. State True or False: Eukaryotic cells are larger in size than a prokaryotic cell.

1. TRUE 2. FALSE

**PODAR INTERNATIONAL SCHOOL**

**Worksheet for vocational assignment**

**Grade: IX**

**Date: \_\_\_29\_\_\_/\_\_\_04\_\_\_/2021**

**Subject: Physics**

**Maximum Marks: 10**

**Q.No.1**

**Distinguish between uniform motion and non uniform motion**

**Give example of each.**

**Q.No.2**

**The maximum speed of a train is 90 km per hour it takes 10 hours to cover a distance of 500 km find the ratio of its average speed to maximum speed.**

**Q.No.3**

**An object dropped from a cliff falls with a constant acceleration of 10 metre per second square find its speed 5 seconds after it was dropped.**

**Q.No.4**

**Bullet hits a sandbox with a velocity of 20 metre per second and penetrates it up to a distance of 6 m find the deceleration of the bullet in the sandbox.**

**Q.No.5**

**A train 100 metres long is moving with velocity of 72 km per hour find the time it takes to cross the bridge which is 2 kilometres long?**

**ASSIGNMENT QUESTIONS SET – 1**  
**CHAPTER – 1**  
**MATTER IN OUR SURROUNDINGS**

1. Fill in the blanks
  - a. The process of \_\_\_\_\_ causes cooling.
  - b. The process of cooling glass is known as \_\_\_\_\_.
  - c. Liquids have no fixed \_\_\_\_\_ but have fixed \_\_\_\_\_.
  - d. \_\_\_\_\_ exists in all three states of matter.
  - e. Carbon dioxide is a white solid called \_\_\_\_\_ at temperature below \_\_\_\_\_.
  
2. State True or False
  - a. Evaporation of water is a bulk phenomenon.
  - b. Diffusion takes place in haphazard and random way.
  - c. SI unit of pressure is Pascal.
  - d. A gas is highly incompressible fluid.
  - e. Solids and liquids can be identified from their characteristic melting and boiling points.
  
3. Zig-zag movement of the solute particle in a solution is known as
  - (a) Linear motion
  - (b) Circular motion
  - (c) Brownian motion
  - (d) Curved motion.
  
4. Gases can be liquified by
  - (a) increasing pressure
  - (b) decreasing temperature
  - (c) both (a) and (b)
  - (d) decreasing pressure
  
5. Density of a substance is defined as
  - (a) ratio of mass and volume
  - (b) product of mass and volume
  - (c) ratio of mass and temperature
  - (d) product of mass and temperature
  
6. Which of the following is not matter
  - (a) Blood
  - (b) Humidity
  - (c) Electron
  - (d) Moon rock
  
7. Which is more effective in cooling?
  - (a) Ice at 0° C
  - (b) Water at 0° C
  - (c) Water at 100° C
  - (d) Ice at 100° C

8.  $0^{\circ}\text{C}$  temperature is equal to
- (a) 0 K
  - (b) 273 K
  - (c) -273 K
  - (d) 300 K
9. The process involving the change of state from solid to gas is called
- (a) melting
  - (b) boiling
  - (c) sublimation
  - (c) fusion
10. A solid has
- (a) definite volume and no definite shape
  - (b) no definite volume no definite shape
  - (c) definite shape and volume
  - (d) definite shape but no definite volume
11. A liquid has
- (a) definite volume and no definite shape
  - (b) no definite volume no definite shape
  - (c) definite shape and volume
  - (d) definite shape but no definite volume
12. A gas has
- (a) definite volume and no definite shape
  - (b) no definite volume no definite shape
  - (c) definite shape and volume
  - (d) definite shape but no definite volume
13. Which of the following is NOT a property of particles of a matter?
- (a) The particles of matter are extremely small
  - (b) The particles of matter have spaces between them.
  - (c) The particles of matter are in stationery state.
  - (d) The particles of matter attract each other.
14. Which of the following has minimum spaces among the particles?
- (a) Solids
  - (b) Liquids
  - (c) Gases
  - (d) None of these
15. During summer, water kept in an earthen pot becomes cool because of the phenomenon of
- (a) diffusion
  - (b) transpiration
  - (c) osmosis
  - (d) evaporation
16. Rate of diffusion is the fastest in
- (a) Solids
  - (b) Liquids
  - (c) Gases
  - (d) None of these

- 17.** Thermal conduction takes places in
- (a) solids only
  - (b) liquids only
  - (c) gases only
  - (d) solids, liquids and gases.
- 18.** Evaporation always causes
- (a) thermal expansion
  - (b) Liquification
  - (c) Cooling down
  - (d) all of these
- 19.** A change of state directly from solid to gas without changing into liquid state (or vice versa) is called
- (a) Evalopartion
  - (b) Sublimation
  - (c) Diffusion
  - (d) Condensation
- 20.** The rate of evaporation decreases with
- (a) increase in humidity
  - (b) increase of temperature
  - (c) increase in wind speed
  - (d) increase of surface area
- 21.** Expand CNG and LPG.
- 22.** Arrange the following substances in increasing order of force of attraction between the particles. (i) milk (ii) salt (iii) oxygen
- 23.** Why is sponge a solid though compressible?
- 24.** Write one important characteristic of matter.
- 25.** Why does a desert cooler cool better in a hot dry day?
- 26.** Convert: (a) 25°C into kelvin scale (b) 500 K into celsius scale
- 27.** Why does the smell of hot sizzling food reach you several metres away but to get the smell from cold food you have to go close?

**Class - IX**  
**Subject – MATHS**

1. Solve the following sums:
    - (a) Find the value of  $34^2 - 21^2$ .
    - (b) If  $a = 5 - 2\sqrt{5}$ , then find  $a^2$ .
    - (c) Find five rational numbers between  $\frac{4}{5}$  and  $\frac{7}{5}$ .
    - (d) If  $x = 0.28$ , then find  $x^3$ .
    - (e) Add  $5\sqrt{2} + 4\sqrt{3}$  and  $7\sqrt{2} - 6\sqrt{3}$
  2. Represent the rational numbers on number line.
    - (a)  $\frac{3}{4}$  (b)  $-\frac{8}{5}$  (c)  $2\frac{1}{2}$  (d)  $-\frac{7}{8}$
  3. Rationalise the denominators:
    - (a)  $\frac{5}{2+\sqrt{3}}$  (b)  $\frac{8}{\sqrt{5}-\sqrt{6}}$  (c)  $\frac{3}{\sqrt{5}}$
  4. If  $x + y = 12$  and  $xy = 32$ , Find the value of  $x^2 + y^2$ . (Hint : use identity  $(x+y)^2 = x^2 + y^2 + 2xy$  to substitute values)
  5. If  $3x + 2y = 12$  and  $xy = 6$ , find the value of  $9x^2 + 4y^2$ . (Hint : use identity  $(x+y)^2 = x^2 + y^2 + 2xy$  to substitute values)
  6. Write the following cubes in the expanded form:
    - (i)  $(3a + 4b)^3$
    - (ii)  $(5p - 3q)^3$
  7. Represent the Number System with the help of a Flow Chart and write examples also.
  8. Learn and write algebraic identities.
  9. Make a list of law of exponents.
  10. Factorise :
    - (a)  $x^2 - 4x - 21$  (b)  $x^2 - 19x + 78$  (c)  $x^2 + 9x + 18$
- Note: Do practice of all the sums in the given worksheets .**

पेड़ार इंटरनेशनल स्कूल, नांदेड

कक्षा - ९

विषय - हिंदी ग्रीष्मकालीन कार्य

- प्रश्न 1.- 'दुख का अधिकार' पाठ में यशपालजी ने किन सामाजिक समस्याओं को केंद्र में रखा है ?
- प्रश्न 2.- संभ्रांत महिला और अछड़े उम्र की महिला के दुख मनाने के अंदाज को वर्णित कीजिए ।
- प्रश्न 3.- संत शैवास के पदों का केंद्रीय भाव लिखिए ।
- प्रश्न 4.- 'महादेवी वर्मा पशु प्रेमी थी' कथन को स्पष्ट कीजिए ।
- प्रश्न 5.- शब्द और पद के अंतर को स्पष्ट कीजिए ।
- प्रश्न 6.- 'मेश प्रिय पशु' विषय पर अपने विचार लिखिए ।
- प्रश्न 7.- ग्रीष्मावकाश में घुमने जाने हेतु अपने प्रिय मित्र से चर्चा करते हुए पत्र लिखिए ।

या  
- कोरोना महामारी के बढ़ते परिणामों पर चिंता प्रकट करते हुए अपने चाचाजी को पत्र लिखिए ।

— \* समाप्त \* —