

ASSIGNMENT FOR SUMMER HOLIDAY

SUB. ENGLISH

CLASS: IX

Task.1. Prepare a flow chart of chapter no. 1 'How I Taught My Grandmother to Read'

Task.2. Prepare a flow chart of chapter; 'The Brook'

Task.3. Write a letter to the editor on: Increasing number of road accidents due to stray animals.

Task.4. Write a diary entry on daily basis, covering the day's events.

Task.5. Write an article on; Grandparents are the Heart and Soul of a Family.

Task.6. Read any book of your choice and write its review.

Task.7. Access the link to study grammatical rules for accuracy and attempt all the exercises related to Tenses and Parts of Speech.

<https://drive.google.com/file/d/17TKtHLHPfYkEjkIGs2BKVMh41zgttWCZ/view?usp=drivesdk>

Task.8. Visit to an Old Age Home if possible, or interview some elderly neighbours – Take interviews and present it through a PPT( based on the theme of 'How I Taught MY Grandmother To Read')

Home Assignment - Summer vacation.

Class IX

Subject - Biology

- Q.1. Make a comparison and write down ways in which plant cells are different from animal cells.
- Q.2. How is a prokaryotic cell different from a eukaryotic cell?
- Q.3. What would happen if the plasma membrane ruptures or breaks down?
- Q.4. What would happen to the life of a cell if there was no Golgi apparatus?
- Q.5. Which organelle is known as the powerhouse of the cell? why?
- Q.6. Where do the lipids and proteins constituting the cell membrane get synthesised?
- Q.7. How does an Amoeba obtain its food?
- Q.8. What is osmosis?
- Q.9. Carry out the given osmosis experiment. (page no. 59)  
Activity Qs-given on Book P. no 59. (Q. No. 9)
- Q.10. Which type of cell division is required for growth and repair of body and which type is involved in formation of gametes?



Summer Vacation H.W Class IX Subject: Chemistry

Q1. Give reasons.

- (a). Camphor disappears if kept in open air for a few days.
- (b). Wet clothes do not dry easily on a rainy day.
- (c). We ~~sweat~~ sweat more on humid days.

Q2. With the help of an activity show that diffusion becomes faster with increase in temperature.

Q3. A substance A has high compressibility and can be easily liquefied. It can take the shape of any container. Predict the nature of the substance. Enlist four properties of this state of matter.

Q4. Write the difference between Boiling and Evaporation  
(3 points each)



# HW FOR SUMMER VACATION-2024

## CLASS-IX, PHYSICS

DOMS Page No.   
 Date / /

Write answers of the following questions—

- (1) A body travels a distance of 150m from A to B and then moves 20m at right angle to AB. Calculate the total distance and total displacement travelled.
- (2) Abhay swims in a 90m long pool. He comes 180m in one minute by swimming from one end to the other and back along the same straight path. Find the average speed and average velocity.
- (3) An electric train is moving with a velocity of 120km/h. How much distance will it move in 30 second?
- (4) A car travels along a straight line for <sup>1st</sup> half time with speed of 40 km/h and the 2nd half time with the speed of 60 km/h. Find its average speed.
- (5) A ball starts rolling over a horizontal surface with an initial velocity of 2.5 m/s. Due to friction, its velocity decreases at the rate of 2 m/s<sup>2</sup>. How much time will it take to stop?
- (6) Plot velocity-time graph for the given data
 

Velocity (m/s) :	0	2	4	6	8	10	12	14	16
Time (s) :	0	5	10	15	20	25	30	35	40
- (7) In a long race, athletics were expected to take 4 rounds of the track such that the line of finish was same as the line of start. Suppose the length of the track was 200 m.
  - a) What is the total distance to be covered by the athletics?
  - b) What is the displacement when they touch the finish line?
  - c) Is the motion of athletics uniform or non-uniform?



# शीघ्रमासंकाशीय गृह-कार्य

विषय संस्कृत

कक्षा - IX

1. वर्णों का उच्चारण स्थान से संबंधित सूच्य बनाएँ
2. दीर्घ संधि के दस उदाहरण लिखें
3. गुण संधि के दस उदाहरण लिखें
4. वृद्धि संधि के दस उदाहरण लिखें
5. यण संधि के दस उदाहरण लिखें
6. अथोदि संधि के दस उदाहरण लिखें
7. 22 उपसर्गों से पाँच-पाँच शब्द बनाएँ
8. एक से 100 तक संख्या शब्द लिखें एवं याद करें

A.K. Shukla.

Pran



# Hindi

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

कक्षा - नौवीं शीघ्रभावकाश हेतु गृह कार्य

प्रश्न-1 उपसर्ग तथा प्रत्यय किसे कहते हैं परिभाषा एवं उदाहरण लिखिए।

प्रश्न-2 प्रति, अनु, बी, अन, प्र उपसर्ग से दो-दो शब्द बताइए।

प्रश्न-3 इया, ईमा, नी, आलु प्रत्यय से दो-दो शब्द बनाइए।

प्रश्न-4 समास की परिभाषा एवं भेद लिखिए।

प्रश्न-5 राजपुत्र, मृगनयनी, चौशहा, दशानन, हथकड़ी, परलोकगमन, दहीबड़ा, समस्त पद का विशद कर समास का नाम लिखिए।

प्रश्न-6 अर्थ के आधार पर वाक्य भेद लिखिए।

प्रश्न-7 निम्नलिखित का अर्थ के आधार पर वाक्य परिवर्तन कीजिए।

क - मोहन पाँचवी कक्षा में पढ़ता है। (निषेधवाचक)

ख - माली को बुलाओ। (निषेधवाचक)

ग - विद्यार्थी पढ़ते हैं। (आज्ञावाचक)

प्रश्न-8 अनुप्रास, यमक, श्लेष, अलंकार की परिभाषा एवं उदाहरण लिखिए।

प्रश्न-9 निम्नलिखित में अलंकार बताइए।

क - चारु चंद्र की चंचल किरणें

ख - तीन बेर खाती थी वे तीन बेर खाती हैं

ग - सुरुचि सुवास सरस अनुराग

घ - मधुवन की छाती को देखो सूखी कितनी इसकी कलियाँ

प्रश्न-10 कबीर ने ईश्वर को कहाँ-कहाँ ढूँढ़ने को कहा है?

प्रश्न-11 कबीर के अनुसार संसार में बड़ा कौन है?

प्रश्न-12 दो बैलों की कथा के माध्यम से प्रेमचंद जी क्या संदेश देना चाहते हैं? अपने शब्दों में लिखिए।

प्रश्न-13 दो बैलों की कथा के माध्यम से स्पष्ट कीजिए कि स्वतंत्रता सहज नहीं मिलती, उसके लिए संघर्ष करना पड़ता है।



प्रश्न-14 निम्नलिखित में से किन्हीं दो विषय पर अनुच्छेद लिखिए-

- (क) हमारे वजुर्ग हमारे धरोहर (ख) सत्संगति  
(ग) नर हो, न निराश करो मन को

प्रश्न-15 बढ़ती हुई बेकारी की समस्या पर ध्यान आकृष्ट करते हुए किसी दैनिक समाचार पत्र के संपादक को पत्र लिखिए।

प्रश्न-16 परोपकार तथा ईमानदारी विषय पर एक लघु कथा लिखिए।

Assignment (Summer Vacation)  
class - IX (Maths)

ch-1 (Number System)

Q(1): Find 3 rational numbers between (i)  $\frac{3}{5}$  and  $\frac{7}{8}$  and

(ii)  $\frac{5}{7}$  and  $\frac{9}{11}$ .

Q(2): Find a rational number and an ir-rational number between  $\sqrt{2}$  and  $\sqrt{3}$ .

Q(3): Convert the following numbers in rational form:

(i)  $0.40\overline{7}$  (ii)  $2.54\overline{3}$  (iii)  $0.\overline{38} + 1.\overline{27}$

Q(4): Rationalise the denominator:

(i)  $\frac{\sqrt{5}}{2\sqrt{3}}$  (ii)  $\frac{2}{\sqrt{3}-\sqrt{5}}$  (iii)  $\frac{1+\sqrt{2}}{2-\sqrt{2}}$

Q(5): Simplify: (i)  $(2\sqrt{5} + 3\sqrt{2})^2$  (ii)  $(\sqrt{3} - \sqrt{7})^2$

Q(6): (i) Add:  $(5\sqrt{3} - 2\sqrt{7})$  and  $(2\sqrt{3} + \sqrt{5})$

(ii) Divide:  $6\sqrt{27}$  by  $2\sqrt{3}$ .

Q(7): Write the reciprocal of  $(2 + \sqrt{3})$

Q(8): Find the value of  $\sqrt{3-2\sqrt{2}}$ .

Q(9): Find the value of  $(1296)^{0.17} \times (1296)^{0.08}$

Q(10): If  $\sqrt{2} = 1.4142$ , then simplify  $\sqrt{\frac{\sqrt{2}-1}{\sqrt{2}+1}}$ .

Q(11): Represent  $\sqrt{3}$  and  $\sqrt{10.5}$  on number line.

Q(12): If  $a = 7 - 4\sqrt{3}$ , find the value of  $\sqrt{a} + \frac{1}{\sqrt{a}}$ .

Q(13): If  $a = \sqrt{2} + 1$ , find the value of  $(a - \frac{1}{a})^2$ .

Q(14): Find the value of a and b if

(i)  $\frac{\sqrt{3}-1}{\sqrt{3}+1} = a + b\sqrt{3}$  (ii)  $\frac{2-\sqrt{5}}{2+3\sqrt{5}} = \sqrt{5}a + b$

Q(15): If  $a=2$ ,  $b=3$ , find the value of

(i)  $(a^b + b^a)^{-1}$  (ii)  $(a^a + b^b)^{-1}$ .

Q(16): If  $2^a = 3^b = 6^c$ , then find the relation between a, b and c.

Q(17): Simplify:  $\frac{\sqrt{6}}{\sqrt{2}+\sqrt{3}} + \frac{3\sqrt{2}}{\sqrt{6}+\sqrt{3}} - \frac{4\sqrt{3}}{\sqrt{6}+\sqrt{2}}$

Q(18): Prove that  $(\frac{x^l}{x^m})^{\frac{1}{lm}} (\frac{x^m}{x^n})^{\frac{1}{mn}} (\frac{x^n}{x^l})^{\frac{1}{nl}} = 1$ .

Q(19): Evaluate:  $\frac{2^n + 2^{n-1}}{2^{n+1} - 2^n}$ .



### ch-2 (Polynomials)

Q(1): Write the degree of following :

(i)  $-8$  (ii)  $x^{-2}(x^4 + x^2)$  (iii)  $\frac{4x - 5x^2 + 6x^3}{2x}$

Q(2): Write the coefficient of  $x^2$  in :

(i)  $2x - 3 + x^3$  (ii)  $(x-1)(3x-4)$

Q(3): If 2 and 0 are the zeroes of the polynomial  $p(x) = 2x^3 - 5x^2 + ax + b$ , then find the values of a and b.

Q(4): If  $p(x) = x + 3$ , then find  $p(x) + p(-x)$ .

Q(5): Find the remainder when  $x^3 + 3x^2 + 3x + 1$  is divided by  $(x + \pi)$ .

Q(6): Find the value of a for which  $(x+1)$  is a factor of  $p(x) = ax^3 + x^2 - 2x + 4a + 9$ .

Q(7): Find the values of a and b so that the polynomial  $x^3 - 10x^2 + ax + b$  is exactly divisible by  $(x-1)$  as well as  $(x-2)$ .

Q(8): The polynomials  $(2x^3 + x^2 - ax + 2)$  and  $(2x^3 - 3x^2 - 3x + a)$  when divided by  $(x-2)$  leaves the same remainder.

Find the value of a.

Q(9): Factorise: (i)  $x^2 + \frac{1}{x^2} - 2 - 3x + \frac{3}{x}$  (ii)  $a^2 - b^2 + 2bc - c^2$   
(iii)  $x^8 - 1$  (iv)  $4x^4 + 7x^2 - 2$ .

Q(10): If a, b, c are all non-zero and  $a + b + c = 0$ , prove that  $\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab} = 3$ .

# **DAV Public School, JhingurdahProject ( NCL)**

**Session: 204-25**

**Class: ...IX..... , Subject:.....Social Science...**

## **HOLIDAY HOMEWORK**

### **Section A( Short Answer type questions**

- 1-Describe the events that took place on 14 thJuly,1789 in France.**
- 2-Which three causes led to the ‘ Subsistence Crisis ‘ in France during the Old regime?**
- 3- The central location of India at the head of Indian Ocean is considered of great significance.Why ?**
- 4-Whay do you know about India and her neighbours?**
- 5-Describe the three features of small scale manufacturing aa non farming activity in Palampur.**
- 6- Give three reasons why small farmers have to arrange capital by borrowing.**
- 7- What do you understand by the “ broader meaning of democracy “? Explain in brief.**
- 8-How does democracy improve the quality of decision -making ?**

### **Long Answer type questions**

- 1- What steps were taken by Robert Mugabe in Zimbabwe to remain in power?**
- 2- Compare the features of democratic and non – democratic country.**
- 3- What is the main aim of production? State any four requirements for production.**
- 4- Explain two merits and three demerits of Green Revolution.**
- 5- Describe the location of India on the world map.**
- 6- Why are Ahmedabad and Kolkata able to see the noon sun exactly overhead twice a year but not Delhi.**
- 7- Discuss the main causes of the French Revolution.**
- 8- Explain the “ Reign of Terror “ in brief.**
- 9- On the given outline map of India do the following map activity.**
  - a- Labelling neighbouring countries with different colours.,Tropic of Cancer, Standard meridian with degrees.**
  - b- Show on the same outline map the latitudinal and longitudinal extent**
  - c- Mention name of states and union Territories with their capital.**



(iii) Locate and label the Standard Meridian of India.

