



## KENDRIYA VIDYALAYA, GARHWA

### SUMMER VACATION HOME WORK 2023-24

08.05.2023 TO 16.06.2023

### CLASS: IX

SUBJECT	HOME WORK
ENGLISH	<p>Q. Cut and paste three articles from Newspaper or any English magazine and write about each article in 75 words</p> <p>Q Write description about:-</p> <ol style="list-style-type: none"><li>My Grandmother</li><li>My favourite person or actor</li></ol> <p>Q. Write a short description on Science Exhibition organized in your Vidyalaya.</p> <p>Q Write 10 literary devices with one example on chart paper and decorate it.</p> <p>Q. Write the message of the poem 'The Road Not Taken'</p> <p>Q Write a short note on importance of education.</p> <p>Q. Prepare first three chapter listening to audio lesson for Reading activity.</p> <p>Q Read and write 10 examples of each- i. Modals ii. Subject Verb Agreement</p> <p>Q Print out portfolio shared in Whatsapp group and make necessary entry and prepare your work as evidence for entry in it.</p>
HINDI	<p>प्रश्न 1 तीन अपठित गद्यांश तथा पद्यांश के प्रश्न हल करें.</p> <p>प्रश्न 2 दो बैलो की कथा पाठ के आधार पर झूरी का चरित्र चित्रण किजिये.</p> <p>प्रश्न 3 कबीर के पदों का सारांश लिखिए .</p> <p>प्रश्न 4 तिब्बत में जाति प्रथा एवं स्त्रियों की स्थिति पर अपने विचार 'ल्हासा की ओर' पाठ के आधार पर व्यक्त कीजिये</p> <p>प्रश्न 5 एक औपचारिक तथा एक अनौपचारिक पत्र (letter) लिखिए .</p>

प्रश्न 6 निम्नलिखित विषयों पर अनुच्छेद (paragraph) लिखिए –

1. परोपकार      2. विद्या सर्वोत्तम धन है      3. योग का महत्व

प्रश्न 7 क्षितिज भाग 1 के पढ़ाये गये सभी पाठों के प्रश्न उत्तर को याद कीजिये .

प्रश्न 8 पांच प्रत्यय तथा पांच उपसर्ग लिखिए और उनसे तीन- तीन शब्द भी बनाइये .

प्रश्न 9 क्षितिज भाग 1 के पढ़ाये गये सभी पाठों का सारांश और लेखक / कवि परिचय लिखिए. (पोर्ट पोलियों)

प्रश्न 10 उपभोक्तावाद की संस्कृति के विषय में गाँधी जी के क्या विचार थे ?

विषय संवर्धन : समास की परिभाषा उसके भेदों के नाम और उदाहरण लिखिए.

MATHS

Instructions:

- Do your work neatly
- Complete your notebook.
- Prepare for test after vacation (1<sup>st</sup> and 2<sup>nd</sup> chapter).
- SOLVE QUESTION IN CLASS NOTBOOK

1. Find the values of a and b in each of the following

(i)  $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a-6\sqrt{3}$

ii)  $\frac{\sqrt{2+\sqrt{3}}}{\sqrt{2-2\sqrt{3}}} = 2-b\sqrt{6}$

iii)  $\frac{3+\sqrt{7}}{3-\sqrt{7}} = a+b\sqrt{7}$

iv)  $\frac{5+\sqrt{3}}{7-4\sqrt{3}} = 47a + b\sqrt{3}$

v)  $\frac{2+\sqrt{3}}{2-\sqrt{3}} = a + b\sqrt{3}$

2.

Find the value of  $\frac{4}{(216)^{\frac{-2}{3}}} + \frac{1}{(256)^{\frac{-3}{4}}} + \frac{2}{(243)^{\frac{-1}{5}}}$

3.

Evaluate: (i)  $\left(\frac{256}{6561}\right)^{\frac{3}{8}}$  (ii)  $(15625)^{\frac{1}{6}}$  (iii)  $\left(\frac{343}{1331}\right)^{\frac{1}{3}}$  (iv)  $\sqrt[8]{\frac{6561}{65536}}$

4. Express the following in p/q form: (i)  $1.\overline{245}$  (ii)  $2.\overline{35}$  (iii)  $3.\overline{245}$   
 5. Find two rational and irrational numbers between  $\sqrt{2}$  and  $\sqrt{3}$ .  
 6. Find two rational and irrational numbers between  $\frac{2}{5}$  and  $\frac{3}{5}$

7. Evaluate: (i)  $\left(\frac{625}{81}\right)^{\frac{1}{4}}$  (ii)  $(6.25)^{\frac{3}{2}}$  (iii)  $(0.000064)^{\frac{5}{6}}$  (iv)  $(17^2 - 8^2)^{\frac{1}{2}}$

8.

If  $25^{x-1} = 5^{2x-1} - 100$ , then find the value of x.

9.  $x - x^2$  is a \_\_\_\_\_ polynomial.

- a) Linear      b) Quadratic      c) Cubic      d) None of the above

10. The coefficient of  $y^2$  in given expression is  $5y^3 - 2y^2 - 7y + 1$

- a) 2      b) -2      c) 5      d) 7

11. The value of  $p(t) = 2+t+2t^2-t^3$  when  $t=0$  is

- a) 2      b) 1      c) 4      d) 0

12. The zero of the polynomial  $f(x) = 2x+7$  is

- a)  $2/7$       b)  $-2/7$       c)  $7/2$       d)  $-7/2$

13. If  $x + 1$  is a factor of the polynomial  $2x^2 + kx$ , then the value of k is:

- a) -3      b) 4      c) 2      d) -2

14. Find the value of  $\sqrt[3]{216} - \sqrt[3]{125}$

- a) 1      b) -1      c)  $\sqrt[3]{91}$       d) 65

15. The decimal expansion of Rational number is

- a) Terminating  
 b) non-terminating recurring  
 c) non-terminating non-recurring  
 d) Both a & b

16.  $\sqrt{9}$  is \_\_\_\_\_ number.

- a) A rational      b. An irrational

c) Neither rational nor irrational above

d) None of the above

17.  $\sqrt{6} \times \sqrt{27}$  is equal to:

a)  $9\sqrt{2}$

b)  $3\sqrt{3}$

c)  $2\sqrt{2}$

d)  $9\sqrt{3}$

18. The number  $(3-\sqrt{3})(3+\sqrt{3})$  is

a) an irrational number

b) a rational number

c) not a natural number

d) none of these

19.

**Assertion :** The rationalizing factor of  $3 + 2\sqrt{5}$  is  $3 - 2\sqrt{5}$ .

**Reason :** If the product of two irrational numbers is rational then each one is called the rationalising factor of the other.

(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).

(b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).

(c) Assertion (A) is true but reason (R) is false.

(d) Assertion (A) is false but reason (R) is true.

20.

**Assertion :**  $11^3 \times 11^4 = 11^{12}$

**Reason :** If  $a > 0$  be a real number and  $p$  and  $q$  be rational numbers.  
Then  $a^p \times a^q = a^{p+q}$ .

(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).

(b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).

(c) Assertion (A) is true but reason (R) is false.

(d) Assertion (A) is false but reason (R) is true.

21.

**Assertion :**  $2 + \sqrt{3}$  is an irrational number.

**Reason :** Sum of a rational number and an irrational numbers is always an irrational number.

(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).

(b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).

(c) Assertion (A) is true but reason (R) is false.

(d) Assertion (A) is false but reason (R) is true.

22. Draw  $\sqrt{5}$  and  $\sqrt{3}$  on number line.  
 23. CASE BASED QUESTIONS:

**Semi Prime Numbers**

A natural number that can be expressed as a product of two prime numbers is called **semi-prime** number.

For example, 77 is semi-prime since it is a product of two prime numbers, 7 and 11.

[Remember that 1 is not prime.]

**Question 1.** Find the smallest semi-prime number.

**Question 2.** Two consecutive numbers from 10 to 25 which are semi-prime \_\_\_\_\_.

- a) 20 and 21
- b) 14 and 15
- c) 15 and 16
- d) 22 and 23



**Question 3.** Two numbers are said to be co-prime if their HCF is 1. Match the Pair of numbers given in column X with their corresponding properties in Column Y by drawing lines.

Column X

Column Y

- |             |                                     |
|-------------|-------------------------------------|
| A. (77, 33) | 1. co primes as well as semi primes |
| B. (75, 88) | 2. Neither semiprime nor coprime    |
| C. (69, 77) | 3. semiprime but not coprime        |
| D. (56, 63) | 4. coprime but not semiprime        |

	<p>24. Complete the portfolio of the chapter 1 and 2 in file pages.</p> <p>25. Complete ACTIVITY 1 in your activity notebook.</p>
<b>SCIENCE</b>	<ol style="list-style-type: none"> <li>1. Learn key points and crux of these chapters: Chapter-1 &amp; 2.</li> <li>2. Prepare a model to demonstrate movement of particles in solids, liquids and gases. (Page No. 13 of Chapter-1)</li> <li>3. Do prepare above-mentioned chapters for upcoming test/exams.</li> <li>4. Complete the following writing work with complete neatness: i) Notebook, ii) Practical notebook, iii) Portfolio</li> </ol> <p>Portfolio: The format of portfolio is :  <a href="https://drive.google.com/file/d/12IXAxRCA4_xjxU1Jq2VxeumI9o_W7DLi/view?usp=sharing">https://drive.google.com/file/d/12IXAxRCA4_xjxU1Jq2VxeumI9o_W7DLi/view?usp=sharing</a>  Read the format of portfolio carefully and complete it in context of science. (Portfolio can be made in written format or in printed format (pdf/document file). This must be done individually.</p> <ol style="list-style-type: none"> <li>5. Perform these tasks and write inferences in your science practical notebook (These tasks should be performed in school uniform): <ol style="list-style-type: none"> <li>A. Perform an activity which shows the phenomenon of tyndall effect. Make a video of it with complete explanation. Upload this video on your social media platforms like Facebook, YouTube, Instagram and also share with subject teacher.</li> <li>B. Make a list of 10 alloys commonly used in our day-to-day life. Write about their uses and their composition.</li> </ol> </li> </ol>
<b>SST</b>	<p>Q.1 Online outline map of India mark the following:</p> <ol style="list-style-type: none"> <li>A. Longitudinal and latitudinal extent of India</li> <li>B. Neighbouring countries of India</li> <li>C. States lying on of tropic of cancer.</li> <li>D. States and capitals of India and union Territories</li> </ol> <p>Q.2 Write about the causes and consequences of French Revolution ?</p> <p>Q.3 Prepare 25-25 MCQS from each lesson.</p> <ol style="list-style-type: none"> <li>A. History - Chap-1</li> <li>B. Geography- Chap-1</li> </ol> <p>Q.4 Prepare an Art Integrated Project on G 20 summit(In details and locate 15 places of G20 meeting places on political map of india.) Complete your MDP</p>

<b>SANSKRIT</b>	<ol style="list-style-type: none"> <li>1. 'अस्माकं देशः' 'मम विद्यालयः' अनयोः विषये दश दश संस्कृत वाक्य लिख ।</li> <li>2. 1 से 100 तक संस्कृत संख्या वाचक पद लिखें तथा याद करें ।</li> <li>3. बालक और बालिका शब्दरूप लिख कर उसका प्रत्येक पदों का हिंदी में अर्थ लिखें ।</li> <li>4. ग्रुप में भेजे गए पत्रलेखानों को कॉपी में लिखें ।</li> <li>5. क्त्वा प्रत्यय का प्रयोग करके 10 वाक्य लिखें ।</li> <li>6. ग्रुप में भेजे गए द्वे चित्रयोः विषये पञ्च पञ्च वाक्यानि लिखत ।</li> <li>7. पोर्टफोलियो तैयार करें ।</li> </ol>
<b>COMPUTER</b>	<p><b>LEARN :-</b></p> <ol style="list-style-type: none"> <li>1. INTRODUCTION OF A.I. WITH MCQ</li> <li>2. COMMUNICATION SKILLS MCQ WITH THE HELP OF INTERNET</li> <li>3. HISTORY OF AI</li> <li>4. TYPES OF INTELLIGENCE(ALL 9)</li> </ol> <p><b>WRITE SHORT NOTES ON –</b></p> <ol style="list-style-type: none"> <li>1. PYTHON</li> <li>2. DOMAINS OF A.I.</li> <li>3. WEAK A.I. VS STRONG A.I.</li> <li>4. A.I. ETHICS</li> <li>5. 4Ws OF A.I. PROJECT CYCLE</li> <li>6. COMMUNICATION SKILLS</li> </ol>
<b>MUSIC</b>	<ol style="list-style-type: none"> <li>1:- All students learn and write Vidyalaya Prayer,,,,, (दया कर दान विद्या का)</li> <li>2:- All students learn and write National antham and National song ( राष्ट्र गान, जन गण मन और राष्ट्र गीत, वन्दे मातरम्</li> <li>3:- All students learn and write Vidyalaya geet (भारत का स्वर्णिम गौरव केंद्रीय विद्यालय)</li> <li>4:- All students learn and write Vidyalaya students pledge (छात्र प्रतिज्ञा)</li> <li>5:- All students learn and write community song, (सारे जहाँ से अच्छा हिन्दोस्तां हमारा,हम सबभारतीय हैं और हम होंगे कामयाब)</li> </ol>

6:- All students learn and write community song (आता उठवू सारे रान)

नोट=| जो विद्यार्थी प्रार्थना national anthem, national song, community song पहले से म्यूजिक कॉपी में लिख चुके हैं वह केवल याद करेंगे।