



Yuvashakti Model School

— **इहोक्तेहा अरु इण्देकरोति** —

RAMA VIHAR, DELHI - 110081

(Affiliated to CBSE and Recognised by Directorate of Education)

**SUMMER VACATION
HOLIDAY'S HOME WORK
FOR
SESSION (2023-24)
CLASS - IX**



Social Science

1. Make an attractive poster on 'Best gift ever- Be an organ Donor'.
2. Make an interesting project on 'Disaster Management' (15 to 20 pages, do not use transparent folder for the project).
3. Do the following pages in Social Science lab Manual
5,6,7,28,29,30,31,32,33,34,47,48,49,50,63,64,65.
4. Do the following pages in map practice book:- 9,11,13,15,17,19,21,43,45,47
5. Complete and learn all the syllabus done till now.
6. Worksheets of each chapter will be provided on what's app group. Do them in your registers.

हिन्दी

नोट :अपना काम साफ लिखाई में कीजिए।

पाठ्यपुस्तक स्पर्श के आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए:-

प्रश्न 1 खरबूजे बेचने वाली स्त्री क्यों रो रही थी?

प्रश्न 2 नेपाल में माउंट एवरेस्ट को क्या कहते हैं? और लेखिका को यह नाम अच्छा क्यों लगा।

प्रश्न 3 लेखिका बछेंद्री पाल जब बेस कैम्प में थी तब उनसे मिलकर मिलने कौन आया और उन्होंने लेखिका का उत्साह कैसे बढ़ाया?

प्रश्न 4 वैज्ञानिक चेतना के वाहक चंद्रशेखर वेंकट रामन के बारे में लिखिए।(चित्र सहित)

प्रश्न 5 रैदास के पदों की व्याख्या कीजिए।

प्रश्न 6 लेखिका का ध्यान आकर्षित करने के लिए गिल्लू क्या करता था?

परियोजना कार्य :आगे बढ़ती भारतीय महिलाओं की पुस्तक पढ़कर उनसे संबंधित चित्रों को का संग्रह कीजिए एवं जानकारी प्राप्त करके लिखिए। **(किन्ही पांच महिलाओं के बारे में)**

पाठ्यपुस्तक व्याकरण के आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए

प्रश्न 1 उपसर्ग व मूल शब्द को अलग कीजिए ?

अत्यधिक, सुशासन, कुपुत्र, प्रतिदिन, असफल, आजीवन, दुरुपयोग, अपमान, अनुवाद, उपवास, उपग्रह

प्रश्न 2. प्रत्यय किसे कहते हैं ? निम्नलिखित शब्दों में उपयुक्त प्रत्यय को जोड़कर नए शब्द बनाइए।

सांप, चूहा, गुण, मीठा, लोहा, झगड़ा, डिब्बा, बेल, थक, कठिन, देव, व्यक्ति।

प्रश्न 3. शब्द और पद में क्या अंतर होता है ? उदाहरण सहित बताइए।

प्रश्न 4 निम्नलिखित में से किन्ही दो विषयों पर अनुच्छेद लिखिए:-

प्लास्टिक से हानियां

ग्लोबल वार्मिंग के खतरे

साक्षरता: प्रगति का आधार

वर्तमान समय में आतंकवाद

प्रश्न 5 अपने मित्र को पत्र लिखिए जिसमें व्यायाम का महत्व बताया गया हो।

अथवा

समय के सदुपयोग और परिश्रम पर बल देते हुए छोटे भाई को पत्र लिखिए।

प्रश्न 6 स्वर संधि किसे कहते हैं स्वर संधि के कितने भेद होते हैं ? सभी प्रकार के पांच-पांच उदाहरण लिखिए।

प्रश्न 7 अर्थ की दृष्टि से वाक्य के कितने भेद होते हैं उनके नाम लिखिए।

प्रश्न 8 आप ताजमहल में घूमने गए हैं, ताजमहल के दृश्य का वर्णन अपने शब्दों में लिखिए।

ENGLISH

Answer the following questions:-

1. How will you compare and contrast the human teachers and the mechanical teachers?
2. What did Tommy tell Margie about the old school . Write in brief .
3. Write the character sketch of-

Evelyn Glennie, Ron Forbes, AliBix , Kezia, kezia's father

4. In the fair he wants Many things ?
What are they? Why does he move on without waiting for an answer?
5. You want to buy something in a fair. What will you do?
6. Is it right to capture a wild animal and make it a pet .
2. Answer with reference to
the story. "The adventures
of Toto."
7. Who was Iswaran 's What did he do? What was Iswaran amazing
capacity? Describe
8. Write the character sketch of Guru?
9. How did the kingdom become normal again?
10. Why did The swallow decide not to leave the prince?
11. Correct the errors in these sentences.
 - A. Everyone are happy to see Mr Gorden.
 - B. The teacher explained us the poem.
 - C. The inspector did not excepted the thief to confess to the crime.
 - D. She is thinking to stay in her friend's house tonight
12. Write a short story using the following beginning in about 100- 120
words. Once there was a poor weaver named Sam. He was very lazy
and always used to shirk the work. He could not earn much because
of it. He always used to blame his fate for all adversities.
13. Write a diary entry recalling the events at the

birthday party. Note- * Complete copy

- Revise Tenses
- Determines
- Reported Speech

MATHEMATICS

All questions are compulsory. Do all in your homework notebook.

Revision Sheet

Some Suggestion from teacher's desk:

Dear students

- Learning is the beginning of wealth.
- Learning is the beginning of health.
- Learning is the beginning of spirituality.
- Searching and learning is where the miracle process all begins.

Holiday is time to explore the world beyond text books and mundane theories..... there is a mathematician within you. Application of the concept so taught can be done in an enjoyable manner. Open your wings and explore the world unknown, unseen and undiscovered..... All the best!

Solve the following-:

1. If $x + y = 12$ and $xy = 32$, find the value of $x^2 + y^2$.
2. If $3x + 2y = 12$ and $xy = 6$, find the value of $9x^2 + 4y^2$.
3. If $a^2 - b^2 = 9600$, $a - b = 96$, find $a + b$
4. If $a + b = 21$, $ab = 108$, find $a^2 + b^2$
5. If $x - \frac{1}{x} = 2$, find the value of $x^4 + \frac{1}{x^4}$
6. $x^2 + \frac{1}{x^2} = 27$ find the value of each of the following:
 - (i) $x + \frac{1}{x}$
 - (ii) $x - \frac{1}{x}$
7. If $x - \frac{1}{x} = 4$, then evaluate $x^2 + \frac{1}{x^2}$
8. Using identity expand the following
 - I. $(x - 2y - 2z)^2$
 - II. $\left(\frac{1}{4}a - \frac{1}{2}b + 1\right)^2$
 - III. $\left(\frac{3}{2}x + 1\right)^3$
 - IV. $(999)^3$
9. Compute the following products without directly multiplying:

- I. 98 x 102
- II. 95 x 96
- III. 103 x 107
- IV. 104 x 96
- V. 202 x 198

10. Factorize:

(i) $6ab - b^2 + 12ac - 2bc$

(ii) $x^3 - 6x^2 + 3x + 10$

(iii) $6x^2 - 24xy$

(iv) $8(3a - b) + 4(3a - b)^2$

(v) $3\left(x + \frac{1}{x}\right)^2 + 6\left(x + \frac{1}{x}\right)$

(vi) $a^2 + b - a - ab$

(vii) $48ax^2 - 75ay^2$

(viii) $x^2 - \frac{y^2}{100}$

(ix) $\frac{25}{4}x^2 - \frac{4y^2}{a^2}$

(x) $x^3 - 6x^2 - x + 6$

(xi) $x^2 + 12x + 36$

(xii) $9x^2 - 24xy + 16y^2$

(xiii) $9a^2 + 16b^2 + 25c^2 + 24ab - 40bc - 30ac$

(xiv) $x^2 - 24x - 180$

(xv) $x^2 + 6\sqrt{6}x + 48$

(xvi) $2\left(x + \frac{1}{x}\right)^2 - 9\left(x + \frac{1}{x}\right) - 5$

(xvii) $5\sqrt{5}x^2 + 20x + 3\sqrt{5}$

(xviii) $2x^4 - \frac{1}{6}x^2 - \frac{1}{12}$

(xix) $3x^3 - 24$

(xx) $1 - 216a^3$

(xxi) $a^6 - b^6$

(xxii) $27 - 125x^3 - 135x + 225x^2$

(xxiii) $64x^3 + 125y^3 - 64z^3 + 240xyz$

(xxiv) $9(2a - b)^2 - 4(2a - b) - 13$

(xxv) $2y^3 - 5y^2 - 19y + 4$

11. Find the value of k, if $(x - 1)$ is a factor of $4x^3 + 3x^2 - 4x + k$

12. If $x = \frac{2-\sqrt{5}}{2+\sqrt{5}}$ and $y = \frac{2+\sqrt{5}}{2-\sqrt{5}}$ find the value of $x^2 - y^2$

13. Determine the value of p and q if $\frac{7+\sqrt{5}}{7-\sqrt{5}} - \frac{7-\sqrt{5}}{7+\sqrt{5}} = p + 7\sqrt{5}q$

14. Write the definitions of different types of polynomials with examples on the basis of degree.

15. Represent the Number system with the help of Flow chart and write example also.

1. Make an attractive project on the basis of the following.

- | | |
|---------------------------------|-----------------------|
| a) Pie (Π) | (Roll – No. 1 to 10) |
| b) Zero | (Roll – No. 11 – 20) |
| c) Number system | (Roll No. 21 – 30) |
| d) Spiral root upto $\sqrt{16}$ | (Roll – No. 31 to 40) |
-

HOLIDAY HOMEWORK

Class9th (Science)

PHYSICS

Q1 Draw a velocity time graph to represent uniform motion.

Q2 An athlete complete one round of a circular track of diameter hundred meter in 20 second. Find his distance covered after 1 minute 10 second.

Q3 An object starts from rest and travels 20 m in first 2 second and 160 m in next 4 second. Find its velocity after 7 second from starting point.

Q4 “Velocity of a body can never be greater than its speed.” Comment. **Q5** Define acceleration when is the acceleration of a body positive and when is it negative.

CHEMISTRY

Q1 why should we wear cotton clothes in summer?

Q2 what is evaporation? Why does evaporation cause cooling?

Q3 In which case evaporation of water will be faster i.e. near the sea or far away from sea. Give reason.

Q4 If the melting point of an object A is high then what state you expect it to be at room temperature.

Q5 Show with an example that solid liquid and gas diffuses in water.

BIOLOGY

Q1 Write difference between prokaryotes and eukaryotes.

Q2A plant cell is kept in sugar solution. What will happen to it and why?

Q3 Define endocytosis and plasmolysis. **Q4** How are chromatin material and chromosomes related to each other

Q5 if you are provided with some vegetables to cook, you generally add salt during cooking process. After adding salt vegetables release water what mechanism is responsible for this?

Q6. Draw a labelled diagram of animal cell. Explain the function of suicidal bags, control room of the cell. Do above assignment questions in your notes copy.

Complete your lab manual