ARMY PUBLIC SCHOOL, KANPUR
HOLIDAY HOMEWORK
CLASS IX

HINDI

1-दुख का अधिकार शीर्षक से सबंधित एक स्व रचित कहानी लिखिए ।

2- 10-10 श्रुति सम भिन्नार्थक ,पर्यायवाची, विलोम शब्द लिखे ।

3-वृक्षों के महत्व बताते हुए दो मित्रों के बीच का संवाद लेखन लिखे

4--शिक्षा का महत्व बताते हुए छोटे भाई को पत्र लिखें ।

5-एक चित्रचिपका कर उस चित्र का वर्णन कीजिए।

नोट- उपर्युक्त कार्यों के लिए आवश्यकतानुसार चित्रों का प्रयोग भी करिए।   और इसी से एक पोर्टफोलियो तैयार करिए जिसमें प्रथम पृष्ठ आपके अपने बारे में होना चाहिए।

ENGLISH

NOTE: All the work (Q. No. 1, 2 & 3) must be done in one separate file. Holiday H.W. done in the classwork note books will not be accepted.

1. Write biography of Dr A P J Abdul Kalam in reference to the chapter MY CHILDHOOD. Add pictures as well.

2. Read the newspaper daily and write one news article under the given heading-

    -national

    -international

    -sports

    -glamour

    -business

 3- Refer the dictionary and write the full forms of the abbreviations given in the dictionary.

    Eg-fem-feminine

    Prep-prepositions

    Write any thirty such abbreviations

SCIENCE

1. Make a **PPT** on any topic from the Chapter: **Natural Resources (**Minimum **20 slides**)
2. This will be assessed as your **Portfolio** (Internal Assessment)
3. Revise the **chapters completed** in the classes thoroughly for **UT-1**

MATHS

A) 21 QUESTIONS ON CHAPTER (1,2,3,4)

B) PPT (any one)

C) ACTIVITY (any two)

PART -A

1. Express $0.6+0.\overline{7}+0.4\overline{7}$ in the form p/q, where p and q are integers and $q \neq 0$.

2. Locate $\sqrt{5}$, $\sqrt{10}$ and $\sqrt{17}$ on the number line.

3. Insert FIVE rational number and an irrational number between the following:

(i) 2 and 3 (ii) 0 and 0.1 (iii) 1/3 and ½ (iv) – 2/5 and ½ (v) 0.15 and 0.16

4. Let x and y be rational and irrational numbers, respectively. Is x + y necessarily an irrational number? Give an example in support of your answer.

5. Degree of the polynomial $4\times4 + 0x3 + 0x5 + 5x + 7$.

6. If $p(x)= x2 – 2\sqrt{2}x + 1$, then $p(2\sqrt{2})$

7. If p(x) = x + 3, then p(x) + p(–x) is equal to

8. By actual division, find the quotient and the remainder when the first polynomial is divided by the second polynomial: x4 + 1; x –1

9. By Remainder Theorem find the remainder, when p(x) is divided by g(x), where

(i) p() = 3 – 22 – 4– 1, g() = + 1

(ii) p() = 3 – 32 + 4+ 50, g() = – 3

(iii) p() = 43 – 122 + 14– 3, g() = 2– 1

(iv) p() = 3 – 62 + 2– 4, g() = 1 – 3/2

10. Show that p – 1 is a factor of p 10 – 1 and also of p 11 – 1.

11. For what value of m is 3 – 22 + 16 divisible by x + 2?

12. factorize by splitting the middle term a) $\sqrt{3}x2 + 4x + \sqrt{3}$ b) $\sqrt{2}$ 2 + 9 c) 2 + 5 $\sqrt{3}$ c) 7$\sqrt{2}$ 2 − 10

13. If x + y = 12 and xy= 27, find the value of x^3+y^3.

14. The points (other than origin) for which abscissa is equal to the ordinate will lie in
(A) I quadrant only (B) I and II quadrants (C) I and III quadrants (D) II and IV quadrants
15. Point (– 10, 0) lies
(A) on the negative direction of the x-axis
(B) on the negative direction of the y-axis
 (C) in the third quadrant
 (D) in the fourth quadrant
16. Write whether the following statements are True or False? Justify your answer.
(i) Point (0, –2) lies on y-axis.
(ii) The perpendicular distance of the point (4, 3) from the x-axis is 4.
17. The linear equation $3x – y = x – 1$ has :
(A) A unique solution (B) Two solutions (C) Infinitely many solutions (D) No solution
18. Draw the graphs of linear equations $y = x$ and $y = – x$ on the same Cartesian plane. What do you observe?
19. Determine the point on the graph of the linear equation $2x + 5y = 19$ whose ordinate is 1½ times its abscissa.
20. Draw the graph of the linear equation $2x + 3y = 12$. At what points, the graph of the equation cuts the x-axis and the y-axis?
21. The linear equation that converts Fahrenheit (F) to Celsius (C) is given by the relation $C = (5F-160)/9$
(i) If the temperature is 86°F, what is the temperature in Celsius?
(ii) If the temperature is 35°C, what is the temperature in Fahrenheit?
(iii) If the temperature is 0°C what is the temperature in Fahrenheit and if the temperature is 0°F, what is the temperature in Celsius?
(iv) What is the numerical value of the temperature which is same in both the scales?

PART-B (any one)
1. PPT ON (between 10- 15 slides)
i) LAWS OF EXPONENT AND ii) ALGEBRAIC IDENTITIES,
ii) Concept map on Real numbers (including decimal expansion of real numbers)
PART-C (any two)
1. To Draw Hermit Crab by Constructing Square Root Spiral in nature.
(https://www.youtube.com/watch?v=D_hYGbWE3CA)
2. Types of polynomials working model.
(https://www.youtube.com/watch?v=V9YZp0GPedU)
3. Seating Plan of CLASS IX-B
(https://www.youtube.com/watch?v=6vfy7o_siB0)
SOCIAL SCIENCE
1. Make a Project on the topic: Disaster Management
Art & Craft
1)Make a creative year timeline showing "India's race to 100 Unicorn Startups".
2)Design a single flash card based on any topic.
3)Draw and shade 5 animals.
4)Illustrate your favourite Manga or Disney character.
5)Make a Mandala or Lippan Art.

Things to note:
a) Present your work neatly.
b) Don't use tape for border.
c) Write your name, class and section in proper alignment on the back side of paper.