

## **ST KAREN'S SECONDARY SCHOOL**

**(Session 2021-22)**

**CLASS - 9**

**Holiday Home Work (summer)**

**(i) ENGLISH**

**Complete all your pending assignments. Revise all the notes from the copy.**

**From ON BOARD Book**

1. Comprehension – Q. 3 and Q. 4 – Pg 12, 13 ( To be done in the book)

**Writing Work -STORY WRITING (To be done in the English copy)**

2. Develop a story with the help of the hints given below in about 120 words.

Lazy king..... liked to eat and sleep.....became inactive.....doctor called to cure him.....king's minister meets a holy man.....offers to cure him.....calls the king to his hut on foot.....king does as he is told..... walks all the way to the hut.....starts sweating.....sadhu gives an iron ball to the king and asks him to exercise with it everyday.....king does as he is told.....loses weight.....  
.....gets cured.

**(II) HINDI: 1.साहित्य- दुख का अधिकार, गिल्लू, स्मृति ।**

सभी पाठों को ध्यान से पढ़ें एवं कार्य पत्रिका में दिए गए प्रश्नों के उत्तर को अपनी कॉपी में लिखें।

**व्याकरण- 2.शब्द -पद, अनौपचारिक पत्र ,नारा लेखन ,संदेश लेखन।**

कार्य पत्रिका में दिए गए अभ्यास कार्य को अपनी कॉपी में व्याकरण वाले भाग में पूरा करें (लिखावट एवं वर्तनी पर ध्यान दें।)

**लेखन कौशल- 3.नारा लेखन एवं संदेश लेखन**

5 नारा एवं 5संदेश को व्याकरण वाले भाग में साफ सुंदर चित्र सहित लिखें ।

(इन्हें रंगीन भी बना सकते हैं। प्रस्तुति ज्यादा स्पष्ट एवं सुंदर बनेगी।)

विशेष:-। (सभी कार्यों को अपनी कॉपी में ही करें। हिंदी के लिए एक ही कॉपी बनाई गई है।

**(III) MATHS:**

**Solve the following questions in Home work Copy.**

1. Find three rational numbers & three irrational numbers between  $\frac{3}{7}$  and  $\frac{5}{8}$ .
2. Express  $2.\overline{36} + 0.\overline{23}$  as a fraction in simplest form.
3. Simplify:  $3\sqrt{45} - \sqrt{125} + \sqrt{200} - \sqrt{50}$ .
4. Represent  $\sqrt{10.5}$  on the number line.
5. If  $x = 2 + \sqrt{3}$ , find the value of  $x^3 + \frac{1}{x^3}$ .
6. Write the following in ascending order of magnitude.  
 $\sqrt[6]{6}, \sqrt[3]{7}, \sqrt[4]{8}$ .
7. The polynomials  $(2x^3 + x^2 - ax + 2)$  and  $(2x^3 - 3x^2 - 3x + a)$  when divided by  $(x - 2)$  leave the same remainder. Find the value of  $a$ .
8. Find the values of  $a$  and  $b$  so that the polynomial  $(x^4 + ax^3 - 7x^2 - 8x + b)$  is exactly divisible by  $(x + 2)$  as well as  $(x + 3)$ .
9. Factorise: (i)  $8(3a - 2b)^2 - 10(3a - 2b)$  (ii)  $\sqrt{3}x^2 + 10x + 8\sqrt{3}$
10. Factorise using identity: (i)  $x^6 - 729$  (ii)  $(3a - 2b)^3 + (2b - 5c)^3 + (5c - 3a)^3$ .

**(IV) SCIENCE:**

- i. Complete all your notes and assignments in the copy.
- ii. Revise the topics taught.
  - Physics - Solve question no.1 to 10 from exercises of chapter Motion.
  - Chemistry - Compare the properties of solids, liquids and gases in terms of hardness, density, cohesive force, intermolecular space, diffusion, kinetic energy, compressibility (in tabular form)  
Show the interconversion of the three states of matter in the form of a diagram
  - Biology - Draw well labelled diagram of the following-  
Mitochondria, Chloroplast, Prokaryotic cell, and Nucleus (on the blank side of your biology practical copy using pencil)

**(V) SOCIAL SCIENCE:**

1. Complete all the contents in fair copy
2. Revise all the topics explained

**GEOGRAPHY** \_ Solve the questions of exercises (chapter 1 Q no 3&4) in Assignment copy and do the Map practice of chapter 1 also.

**ECONOMICS**\_ Write the answer of exercises of chapter 1 (question number 2, 4 and 6 in si assignment copy)

**HISTORY**\_

1. Complete all the Assignment in the notes copy.
2. Revise the topics taught.
3. Prepare 20 very short question & Answers from the chapter French Revolution.

**CIVICS**\_

1. Complete all the Assignment in the notes copy.
2. Revise all the topics taught.
3. Prepare 15 very short question & Answers from chapter 'What is democracy? Why democracy?'

**(VI) COMPUTER:**

1. Complete all the Contents and Assignments in your Fair copy till date.
2. Revise all the Notes of Unit-1 (Introduction to AI).
3. **Write the answers of the following questions in your Fair copy:-**
  - i. We must not use Smartphones as the various apps can collect and misuse data. Do you agree? Why?
  - ii. Write a short note on the dangers of living in Smart cities.
  - iii. Write a short note on how your life would be without Artificial Intelligence. (Imagine that you do not have any of the AI products, services, solutions, etc. with you).

**NOTE: Written hw done in the fair copy has to be submitted latest by 1<sup>st</sup> June, 2021 to the respective subject teachers through ecare.**