

ST. XAVIER'S SR. SEC. SCHOOL, JAYNAGAR

SUMMER VACATION WORK 2019

Class –X (Ten)

English

Write your answers in ruled sheets

1. Read the newspaper every day. Pick any five editorials. Stick these clippings on a ruled sheet. Write the Caption along with the date for each editorial. Write the summary of any two editorials.
2. Write five stories in 200-250 words based on the given prompts in the grammar notebook
 - (a) There is a hole in the sky where the moon used to be
 - (b) I woke up to hear knocking on the glass. At first I thought it was the window until I heard it come from the mirror again
 - (c) "I can't marry her. She would kill me within a week.".....
 - (d) She asked why I was breathing so heavily. I wasn't.....
 - (e) Mr. Thomas was a wealthy businessman. One day he was alone sitting at his dining table when

Mathematics

1)Topic:- Number System

Word problems on HCF & LCM - 2 questions

Prove that type questions on Euclid division lemma - 3 questions

Proving given numbers irrational - 2 questions

2) Topic :- Polynomials

Verification of relation between coefficient and zeroes of quadratic polynomial -3 questions

Find all zeroes of polynomial if some of its zeroes are given- 2 questions.

Find new polynomial from given quadratic polynomial when relation between zeroes of given and new polynomial is given - 2 questions

3) Similar Triangles

3 question - BPT

3 questions- similarity criterion

3 questions- Pythagoras theorem and converse

2 questions - Area theorem

- 4) Collect data of Lok Sabha election 2019 related to 5 major parties (number Of seats won) and represent it graphically. Analyse and interpret.

Physics

1. What is the SI unit of electric charge? How many electrons make one coulomb of charge?
2. Define the SI unit of current.

3. Define the electric potential difference between two points in an electric circuit carrying some current.
4. Define the SI unit of Electric potential.
5. State the law relating the potential difference across a conductor and the current through it?
6. The V–I graph is a straight line that passes through the origin of the graph. What do you conclude from this observation?
7. Define resistance of a material. Define its SI unit.

Chemistry

1. Consider the following reactions:



Arrange the metals Fe, Cu, Zn and Al in increasing order of reactivity and write the colour of all metal sulphates.

2. Balance the following chemical equations:



3. Write the balanced chemical equations for the following reactions and classify them.

- (a) Lead acetate solution is treated with dilute hydrochloric acid to form lead chloride and acetic acid solution.
- (b) A piece of sodium metal is added to absolute ethanol to form sodium ethoxide and hydrogen gas.
- (c) Iron(III) oxide on heating with carbon monoxide gas reacts to form solid iron and liberates carbon dioxide gas
- (d) Hydrogen sulphide gas reacts with oxygen gas to form solid sulphur and liquid water

4. What happens when

- (a) Barium nitrate is heated
- (b) Potassium iodide reacts with lead nitrate
- (c) Zinc metal reacts with nitric acid
- (d) Iron metal reacts with steam

5. Find out oxidising and reducing agent in the following reactions.



Biology

1. What will happen if mucus is not secreted by Gastric glands?
2. What are variegated leaves? Give two examples
3. What are the various processes that take place in the duodenum?
4. What would happen to the rate of photosynthesis if:
 - a) It is cloudy day
 - b) soil is dry without water
 - c) Good manuring
 - d) Stomata gets blocked by dust.

Social Science

On the political map of India locate all major dams (Multipurpose projects) built across important rivers of India.

Make a collage using newspaper cutting/ magazine to show how human activities have resulted in land degradation in India.

Hindi

- 1) यदि आप इस लोकसभा चुनाव में खड़े होते तो सर्वाधिक मत प्राप्त करने के लिए अपना प्रचार किस प्रकार करते ? इस विषय पर अपने विचार व्यक्त कीजिए ।
- 2) किन्हीं चार द्वायावादी कवियों के चित्र लगाकर उनका जीवन परिचय दीजिए तथा उनकी किन्हीं दो – दो रचनाओं की विस्तृत जानकारी दीजिए ।
- 3) आप जिस सोसायटी में रहते हैं , वहाँ पर रहने वाले कुछ ऐसे व्यक्ति जिनकी चारित्रिक विशेषताओं ने आपको प्रभावित किया हो ; उनके विषय में लिखिए और साक्षात्कार के साथ फोटो भी लगाइए ।

Note: Also complete the tasks given in the diary.