

CLASS- IX

HOLIDAY HOMEWORK JUNE, 2020

ENGLISH LANGUAGE

1) Total English:

Do Q2, Q3, Q4 & Q5 of Practice Papers 5, 6 and 7 in your fair notebook.

2) Prepare a speech on any topic of your interest for an oral presentation of two minutes.

ENGLISH LITERATURE

Read the Chapters, Poems and the part of 'The Merchant of Venice' done in the online classes and answer the questions in the respective workbook.

MATHS

Study the ways of raising an education loan for your higher studies. Also list its pros and cons.

Prepare a report on it.

Revision of all the chapters done.

HISTORY-CIVICS

1. Complete the given Project work.

2. Complete the question answers, of the chapters already done, in your notebooks.

3. Prepare a two minute speech on any current political or social topic of your choice for oral expression.

GEOGRAPHY

Read and revise the lessons done in the class.

Practice all the diagrams given in the lessons.

Prepare a project on topic **Pollution**.

PHYSICS

Practice all the exercises given at the end of each unit of the following chapters:

1. Measurement and Experimentation

2. Equations of Motion

3. Laws of Motion

CHEMISTRY

Q1. Write chemical formulae for the following compounds: -

a. Sodium:

i. Chloride. ii) Sulphide. iii) Sulphite. iv) Nitrate. v) Nitrite.

b. Aluminium:

i. Sulphate. ii) Phosphate. iii) Nitride

c. Ammonium:

i. Carbonate. ii) Sulphate. iii) Phosphate. iv) Hydroxide.

d. Iron Sulphide.

e. Lead oxide.

f. Chromium sulphate.

g. Calcium silicate.

h. Sodium zincate.

i. Potassium chromate.

Q2. Revise and learn the identification of gases and Action of heat on substances from the Chapter on practical chemistry. Write them in your practical notebook.

Q3. Practice balancing of 20 chemical equations from the chapter Language of Chemistry.

Q4. Write 10 chemical equations from word equations from the chapter Language of Chemistry

Q5. Solve the following numericals based on Gas Laws.

a. What will be the minimum pressure required to compress 500 dm³ of air at 1 bar to 200 dm³ temperature remaining constant. (Ans :2.5bar)

b. 2 litres of a gas is enclosed in a vessel at a pressure of 760 mm Hg. If the temperature remains constant, calculate pressure when volume changes to 4 dm³. (Ans :380mmHg)

c. 800 cm³ of gas is collected at 650 mm pressure. At what pressure would the volume of the gas reduce by 40% of its original volume, temperature remaining constant. (Ans :1083.33mmHg)

- d. A cylinder of 20 litres capacity contains a gas at 100 atmospheric pressure. How many flasks of 200 cm^3 capacity can be filled from it at 1 atmospheric pressure, temperature remains constant?
(Ans :10000 flasks)
- e. 88 cm^3 of nitrogen is at a pressure of 770 mm mercury. If the pressure is raised to 880 mm Hg. Find by how much the volume will diminish, temperature remains constant. (Ans : 11 cm^3)
- f. A steel cylinder of internal volume 20 litres is filled with hydrogen gas at 29 atmosphere pressure. If hydrogen is used to fill balloon at 1.25 atmosphere pressure at the same temperature, what volume will the gas occupy.
(Ans :464litres)
- g. A gas occupies 500 cm^3 at normal temperature. At what temperature will the volume of the gas be reduced by 20% of its original volume. Pressure being constant. (Ans :218.4K)
- h. A sample of carbon dioxide occupies 30 cm^3 at 15°C and 740 mm pressure. Find its volume at S.T.P.(Ans : 27.7 cm^3).
- i. 50 cm^3 of hydrogen is collected over water at 17°C and 750 mm Hg pressure. Calculate the volume of dry gas at S.T.P. The water vapour pressure at 17°C is 14 mm Hg. (Ans : 45.6 cm^3)

NOTE: All the work is to be done in Chemistry fair notebooks.

BIOLOGY

- Prepare compost in a medium- sized pot from the kitchen waste available at your home.
 - State five differences between manure and chemical fertilizers in your fair notebook.
 - Explain composting and state its importance (in your fair notebook).
- Sow few seeds (gram seed/ bean seed/ maize grain/ any seed available at your home) and observe all the stages of germination to feel more connected to 'Mother Nature'.
- Learn the chapters – Chapter 2, 3, 4, 5, 6, 18 and 19.
- Practice the following diagrams in a rough register – Fig 2.9 (A and B), Fig 3.13, Fig 4.1, Fig 5.6, Fig 6.1, Fig 6.2, Fig 6.5 and Fig 6.6

COMPUTER APPLICATIONS

Revise and learn the chapters **1,2,3,4 and 6**

Do the questions given in Review Insight of every chapter in your Rough notebook and unsolved Questions in Fair Notebook.

ECONOMIC APPLICATIONS

Write notes of all lessons done in the fair notebook

Revise the lessons and learn the notes.

SUPW

Step 1→



STEP2 ->



STEP 3→



Earthen Pot Painting
Example

HINDI

HINDI ASSIGNMENT FOR SUMMER VACATION

कक्षा - नवम्

(क) हिन्दी भाषा

- (i) कोरोना संक्रमण के समय सरकार द्वारा जोषित अवकाश आप सभी ने किस प्रकार सार्थक किया? अपने विचार विस्तृत रूप से निबंध के रूप में लिखिए।
लगभग - (300-350) शब्दों में अपने विचार व्यक्त करें।
- (ii) भाषा के अन्तर्गत आने वाला व्याकरणिक कार्य का स्वपाठन करते हुए याद भी करें।

(ख) हिन्दी साहित्य

- (i) 'साहित्य सागर' पुस्तक में आपके द्वारा पढ़े गये पाठों में किस-किस चरित्र ने आपको प्रभावित किया? उनमें से किन्हीं दो चरित्र की चरित्रिक विशेषताओं का वर्णन कीजिये।
लगभग - (200-300) शब्दों में अपने विचारों को व्यक्त करें।
- (ii) अभ्यास - पुस्तिका में पढ़े गये पाठों का अभ्यास कार्य पूर्ण करें।

NOTE :- (*) परियोजना कार्य (Project Work) :-
निबंध (उपयुक्त लिखा हुआ) व चरित्रिक विशेषताओं को रजिस्टर के पृष्ठों (पेजों) पर ही करना है, कोई 'File' की आवश्यकता नहीं है।

(*) पृष्ठों पर कार्य करके उन्हें अलग से बाँधना (Staple) करके ही तैयार करना है।