

**PM SHRI KENDRIYA VIDYALAYA NFC NAGAR, GHATKESAR
SUMMER VACATION – HOLIDAY HOMEWORK**

CLASS: X A

SUBJECT: SCIENCE

Must do Homework in A4 size sheets only.

WRITING ACTIVITY:

(A) Long Answer

1. Draw a neat labelled diagram of Human Digestive system and explain about the process of Digestion.
2. Explain about role of heart in circulation and double circulation through diagram.
3. Explain about types of reactions along with the examples.
4. Brief explanation about Excretory system along with a neat labelled diagram.
5. Write about steps to balance a chemical equation.

(B) HOTS (Higher Order Thinking Skills)

1. Why is respiration considered an exothermic reaction even though it occurs slowly?
2. A solution of a substance 'X' is used for whitewashing.
 - Identify X
 - Write reactions involved
3. Why do plants die if overwatered?
4. Why do we feel muscle cramps after heavy exercise?
5. Why is small intestine longer than large intestine?
6. Why is blood called a "fluid connective tissue"?

(C) Case-Based Questions

1. An iron gate is left unpainted during rainy season.

Questions:

1. What chemical change occurs?
 2. Write the reaction.
 3. Suggest two prevention methods.
 4. Why is rusting faster in coastal areas?
2. Food items are packed with nitrogen gas.

Questions:

1. What is the reason?
2. Which process is prevented?
3. Name the type of reaction involved in spoilage.