

**AIRPORT SCHOOL, AHMEDABAD**  
**HOLIDAY HOMEWORK 2018 – 19**  
**CLASS: X**  
**SUBJECT: SCIENCE**

**Answer the following questions:**

**Biology**

1. Write down the function of Stomach.
2. Distinguish between Aerobic Respiration and Anaerobic Respiration.
3. Difference between Autotrophic Nutrition and Heterophic Nutrition.
4. Draw a diagram to show the human alimentary canal and label it. Name the longest part of the alimentary canal.
5. What is emulsification?

**Physics**

6. On what factor does the resistance of the conductor depends?
7. Which uses more energy, a 250W TVset in 1h, or a 1200W toaster in 10 minutes?
8. The amount of charge passing through a cell in four second is 12C. Find the current supplied by the cell.
9. Name the commercial unit of electrical energy. Convert it into joule .What is the other name of the commercial unit?
10. Two lamps one rated 100W at 220V and the other rated 60W at 220V are connected in parallel to electric mains supply. What current is drawn from the line if the supply voltage is 220V?

**Chemistry**

11. Define: Thermal decomposition reaction, Photodecomposition reaction, Electrolysis giving example
12. Consider the following reaction:  $X + \text{Barium chloride} \rightarrow Y + \text{sodium chloride}$ ;  
a) Identify X & Y                      b) type of reaction
13. Write balanced equation for photosynthesis.
14. State the type of chemical reaction: a) Magnesium wire is burnt in air b) ammonia & hydrogen chloride gas are mixed
15. Write the essential condition for the photolysis or photodecomposition reaction giving example
16. 2 gm of ferrous sulphate is burnt in air in dry tube: a) Name the type of reaction b) write balance chemical equation for the same
17. Write the balanced equation for the following: Phosphorous burns in presence of chlorine gas to form phosphorous pent chloride.