

**AIRFORCE SCHOOL BARRACKPORE**  
**ASSIGNMENTS FOR STUDENTS**  
**Class X**

**SUB: HINDI**

**Assignment**

1. Listening Skill – Listening story or paragraph and write down the answer of the given question.
2. Debate on current affairs
3. Project Work (Story book making/file according to the given topic)
4. Speech on given topic
5. Declamation / Quiz

**SUB: ENGLISH**

1. Write an Article on Awareness regarding CORONA VIRUS (180 Words).
2. “Knowledge in depth or wit” which one is mostly applied in life – Explain in the light of “Midnight Visitor”.
3. Write a complaint letter to your local Councilor regarding reckless playing of mics during any social event of your locality.
4. ‘Physical Charm or beauty of Soul’ – Which one is constant? Discuss in the light of the poem “For Anne Gregory”
5. Write an Article on: “Music is the rhythm of life” (150 Words)

**SUB: MATHEMATICS**

**Assignment 1**

1. Show that any positive integer is of the form  $3q$  or  $3q+1$  or  $3q+2$  for some integer  $q$ .
2. Use Euclid’s division algorithm to find the HCF of 184, 230 and 276

$$\frac{2\sqrt{45} + 3\sqrt{20}}{2\sqrt{5}}$$

3. Write whether  $\frac{2\sqrt{45} + 3\sqrt{20}}{2\sqrt{5}}$  on simplification gives a rational or irrational number
4. Write the standard form of a quadratic polynomial with real coefficients

**Assignment 2**

1. Define HCF of two positive integers and find the HCF of 475 and 495

2. On a morning walk, three persons step off together and their steps measure 40Cm, 42Cm & 45Cm respectively. What is the minimum distance each should walk so that each can cover the same distance and complete steps.
3. Draw the graph of the polynomial  $f(x) = (-3)x^2 + 2x - 1$

### Assignment 3

1. Show that the square of any positive integer cannot be of the form  $6m+2$  or  $6m+5$  for any integer  $m$ .
2. The HCF of two numbers is 16 and their product is 3072. Find their LCM.

## SUB: PHYSICS

### Assignment – Chapter 12 – Electricity

#### 1. Answer the following questions

- I. What constitutes current?
- II. How is an ammeter connected in an electrical circuit?
- III. Define : Potential Difference
- IV. Define: Electrical conductor & insulator
- V. What do you mean by one coulomb

#### Assignment

- I. The filament of an electrical lamp draws a current of 0.4 A which lights for 3 hours. Calculate the amount of charge that flows through the circuit
- II. An electric iron draws a current of 0.5 A when voltage is 200V. Calculate the amount of charge flowing through it in one hour?
- III. State and prove OHM's law
- IV. Define: 1 Volt and 1 amp

#### Assignment

- i. What do you mean by resistivity
- ii. State S.I unit of resistance
- iii. Write down the uses of voltmeter, Ammeter and Galvanometers

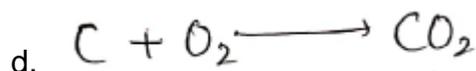
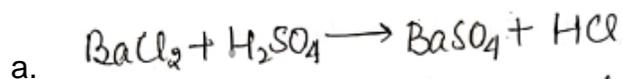
## SUB: Chemistry & Biology

### Assignment 1

1. Give an example each of thermal decomposition and photochemical decomposition sections write balance equation for same
2. What is precipitation reaction? Give an example
3. Write the function of the following
  - a. Bile
  - b. Hydrochloric acid
  - c. Villi

### Assignment 2

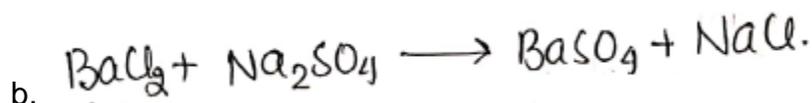
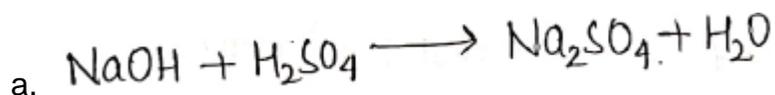
1. Classify the following reaction and balance the



2. Name and state a law which is kept in mind while we balance a chemical equation
3. State the location and the function of gastric glands
4. What are the final products of carbohydrates, proteins and fats after their digestion?

### Assignment 3

1. What is peristaltic movement?
2. Name the enzyme present in pancreatic juice and give their functions
3. Balance the following



4. Solution of a substance 'x' is used for testing  $\text{CO}_2$  how is 'x' obtained? Write equation.