# **NEW STANDARD ACADEMY**

#### Semri Kothi Super Market, Raebareli CLASS 10 (Academy) 12-05-2025

### **PHYSICS**

- 1. Why does a ray of light bend towards the normal when it enters from air in a glass slab and bends away from the normal when it emerges out into air?
- 2. Draw the path of a ray when it enters perpen-dicular to the surface of a glass slab.
- 3. Which type of lens is used by watch-makers while repairing fine parts of a wrist watch?
- 4. Can this method be used to find the approximate focal length of a concave lens?
- 5. A concave lens has focal length 30 cm. If image is formed at a distance 10 cm from the lens, find the position of object. Calculate the magnification produced by the lens also.

## **CHEMISTRY**

- 1. What is the reaction called when an acid reacts with a base to produce salt and water?
- 2. A substance turns red litmus blue .What is the nature of the substance?
- 3. Which gas is evolved when solium hydrogen carbonate is treated with hydrochloric acid?
- 4. What do you mean by the basicity of an acid?
- 5. Define a base .What do you understand by the acidityof a base?

## **BIOLOGY**

- 1. How many chambers present in heart give the name
- 2. Draw labelled diagram of heart
- 3. What is function of heart
- 4. What is the difference in pulmonary artery and pulmonary vein
- 5. What is SAN in heart

### MATH

- The sum of the reciprocals of Rehman's ages (in years) 3 years ago and 5 years from now is <sup>1</sup>/<sub>3</sub>. Find his present age.
- 2. If Zeba were younger by 5 years than what she really is then the square of her age (in years) would have been 11 more than five times her actual age. What is her age now?
- A shopkeeper buys some books for ₹80. If he had bought 4more books for the same amount each book would have cost₹1 less. Find the number of books he bought.
- 4. *O Girl* ! Out of a group of swans,  $\frac{7}{2}$  times the square root of the number are playing on the shore of a tank. The two remaining ones are playing in the water. What is the total number of swans?
- 5. A train travelling at a uniform speed for 360 km would have taken 48 minutes less to travel the same distance if its speed were 5km/h more . find the original speed of the train.