NEW STANDARD ACADEMY

Semri Kothi Super Market, Raebareli CLASS 10 DPP (Academy) 14-07-2025

PHYSICS

- 1. Differentiate real and virtual images.
- 2. Discuse different types of reflections. Which type reflection help us in vision?
- 3. What do you understand by an image? Give its types. How do we see an image?
- 4. What is the path of a ray of light?
- 5. Mention an evidence in favour of path of light. (pg-12&13)

CHEMISTRY

- 1. How will you come to know that a chemical change has occurred?
- 2. A colourless lead salt on heating produces brown fumes and a yellow solid. Name these compounds and write balanced chemical equation for the reaction. (05-05-25)
- 3. Metal compound (A) reacts with dilute hydrochloric acid to produce effervescence. The gas evolved extinguishes a burning candle. Write a balanced chemical equation for the reaction if one of the compounds formed is calcium chloride.
- 4. What is an indicator? Name some natural and synthetic indicators.
- 5. What would be the pH of an aqueous solution of sodium bicarbonate?

BIOLOGY

- 1. What is the difference between central nervous system and peripheral nervous system
- 2. What is a motor neurone
- 3. What is the reflex action give the example
- 4. Give the name and function of gaseous plant hormone
- 5. What is a tropic movement in plant give the example

MATHS

- 1. If α , β are zeroes of a polynomial $p(x) = 2x^2$ -x-1 then $\alpha^2 + \beta^2$ is equal to:
- 2. The number of quadratic polynomials having having zeroes -5 and -3 is

- 3. If one root of the equation $(k-1)x^2-10x+3=0$ is the reciprocal of the other then the value of k is
- 4. Without actually calculating the zeroes, the zeroes, Form a quadratic polynomial whose zeros are reciprocals of the zeros of the polynomial $5x^2+2x-3$.
- 5. Solve for x: $\frac{1}{(a+b+c)} = \frac{1}{a} + \frac{1}{b} + \frac{1}{x}$, $[a \neq 0, b \neq 0, x \neq 0x \neq -(a+b)]$
- 6. Find the solution of the pair of of equations:

$$\frac{3}{x} + \frac{8}{y} = -1; \frac{1}{x} - \frac{2}{y} = 2, x, y \neq 0.$$

- 7. Solve 2x + 3y = 11 and 2x 4y = -24 and hence find the value of m for which y = mx + 3
- 8. Solve 2(7x + 4y) = xy; 2(3x + 2y) = 3xy
- 9. 3 chair and 1 table cost ₹ 900; whereas 5 chairs and 3 tables cost ₹2100. If the cost of 1 chair is ₹x and the cost of 1 table is ₹y, then the situation can be represented algebraically as
- 10. The larger of two supplementary angles exceeds ther smaller by 22 degrees. find them.