NEW STANDARD ACADEMY

Semri Kothi Super Market, Raebareli
CLASS 9 (Academy) 26-05-2025

PHYSICS

1. The velocity of bullet is reduced from 200m/s to 100 m/s while traveling through a wooden block of thickness 10 cm. The retardation, assuming it to be uniform will be :
2. A body freely failing from rest has a velocity V after it falls through a height h. The distance it has to fall further for its velocity to be come double is :
3. A car increase its speed from 20 kmh-1 to 50 kmh-1 is 10 sec., its acceleration is :
4. A body is moving along a straight line at 20 ms-1 undergoes an acceleration of 4 ms-2. After 2 s, its speed will be:
5. In 12 minutes a car whose speed is 35 kmh-1 travels of distance of :

CHEMISTRY

1. Fog and cloud are both colloidal in nature. How do they differ from each other?
2. Define the terms: solution, suspension and colloid. Make a comparison of size of their particles.
3. Cheese is an example of one type of colloidal solution, name it. Give reason.
4. Define the following terms:
   (i) Dispersed phase   (ii) Dispersion medium
   (iii) Brownian motion   (iv) Solvent
5. Give the expression for the concentration of a solution. How will you prepare a 10% solution of glucose by mass in water?

BIOLOGY

1. Why mitosis is called equiptional division
2. Why meiosis is called reductional division
3. What is the karyokinesis
4. What is cytokininsis
5. Mitosis and meiosis occur in which type of cell?

MATH

1. If a point is at a distance of 4 units in the positive direction of x-axis and at a distance of 2 units below x-axis, then find its coordinates.
2. Write the coordinates of the points which lie on the x-axis and are at a distance of 6 units from the y-axis.
3. Find the reflection of the point (-7, -2) in the x-axis.
4. Find the distances of points P(-3,-2) and Q(5.0) from the x-axis and y-axis.
5. What are the distances of the point (3, -20) from x-axis and y-axis?