

**Delhi Public School, Jammu**  
**Session 2014-15**

**Class –IX**

**Sub:-Science**

**TOPICS:PHYSICS: Force and laws of motion**  
**Chemistry : Is matter around us pure?**  
**Biology : Improvement of food resources**

Q1 State and explain law of conservation of momentum.

Q2 Give reasons:

- (1) On applying sudden breaks driver gets a forward jerk.
- (2) A fielder lowers his hands while catching a ball.

Q3 Draw the graph for the following cases:

- (1) Velocity time graph for body undergoing retardation.
- (2) Distance time graph for a body at rest.

Q4 An object of mass 2kg moving with a velocity of 5m/s collides and sticks to a stationary wooden block of mass 5kg. They both move off together. Calculate the speed of the combined object.

Q5 Calculate the momentum of object of mass 5kg moving at a speed of 20km/hr.

Q6 Differentiate between homogeneous and heterogeneous mixture.

Q6 Define compound and give its characteristics.

Q7 Define evaporation and explain how temperature and surface area affect the rate of evaporation.

Q8 What is an aqueous solution? Give two examples.

Q9 A solution is formed by dissolving 50 gm of salt in 100 gm of water. Find the concentration of solution in terms of mass percentage of solution.

Q10 What are pure substances? Give two examples.

Q11 What are pests? How do they attack our crops?

Q12 Differentiate between manures and fertilizers.

Q13 Write a short note on composite fish culture.

Q14 Name two indigenous and two exotic breeds of cow.

Q15 How can you say that an animal in zoo has fallen sick?