

TEST

CLASS IX

MM:40

1. State the law of conservation of momentum?....2
2. Explain why ice has lower density than water?.....2
3. Why should we wear cotton clothes in summer?....2
4. Why does the temperature remain constant until whole of the solid changes into liquid, though the heat energy is constantly supplied ?...2
5. Why does a passenger jumping out of a rapidly moving bus fall forward with his face downwards?.....2
6. Why can dust be removed by shaking it, or beating it by a carpet?....2
7. Explain with help of graph third equation of motion?....3
8. What are three equation of motion explain....3
9. With the help of a labelled diagram, describe the method of separating ammonium chloride from a mixture of ammonium chloride and common salt. Mention the difference in the properties of ammonium chloride and sodium chloride which has made this separation possible.....3
10. What is fractional distillation ? What is the use of fractionating column in fractional distillation.....3
11. What are the applications of interconversion of states of matter?.....3
12. Compare the process of boiling and vaporization.....3
13. The distance between Delhi and Agra is 200 km. A train travels the first 100 km at a speed of 50 km/h. How fast must the train travel the next 100 km, so as to average 70 km/h for the whole journey ?
The velocity of a body of mass 10kg increases from 4m/s to 8m/s when a force acts on it for 2 sec.....4
 - a. What is the momentum before the force acts?
 - b. What is the momentum after the force acts?
 - c. What is the gain in momentum per sec?
 - d. What is the value of force?

14. Fill in the following blanks with suitable words :.....6

- (a) Miscible liquids are separated by.....
- (b) Immiscible liquids are separated by using a.....
- (c) A mixture of kerosene and petrol can be separated by.....
- (d) The separation of liquids by fractional distillation is based on the difference in their.....
- (e) The gases of air can be separated by fractional distillation of liquid air because they have different.....
- (f) A heterogeneous mixture of liquid and solid is conveniently separated by.....
- (g) If a mixture contains iron filings as one of the constituents, it can be separated by using a.....