**Aarambh Classes**

**Class 9**

**Science test**

T**ime : 1 hour M.Marks : 20**

**1 mark questions :**

1. Under what condition is the magnitude of average velocity of an object equal to its qverage speed ?
2. What is the quantity which is measured by the area occupied below the velocity time graph ?
3. What can you say about the motion of an object whose distance time graph is a straight line parallel to the time axis ?
4. Convert 300K into celsius scale .
5. For any substance ,why does the temperature remains constant during the change of state ?

**2 marks questions :**

6. How does the water kept in an earthern pot become cool during summer ?

7. What produces more severe burns – boiling water or steam ?

8. A bus decrease its speed from 80 km/h to 60 km/h in 5 s.Find the acceleration of the bus .

9. A stone is thrown in vertically upward direction with a velocity of 5 m/s .If the acceleration of the stone during its motion is 10 m/s in the downward direction ,what will be the height attained by the stone and how much time will it take to reach there ?

10. An athlete completes one round of a circular track of diameter 200 m in 40 s .What will be the distance covered and the displacement at the end of 2 minutes 20 s ?

**5 marks questions :**

11. A ball is gently dropped from aheight of 20 m.If its velocity increases uniformly at the rate of 10 m/s,with what velocity will it strike the ground ?After what time will it strike the ground ?