

MAHESH TUTORIALS9th CBSE
Batch :**SUBJECT : SCIENCE & TECHNOLOGY**
Chapter : 1, 2, 5, 6, 8, 9
Question Paper**Test -**
Date:
Marks : 60
Time: 2 Hrs**Q : 1 Answer the following questions : [1 Marks]**

05

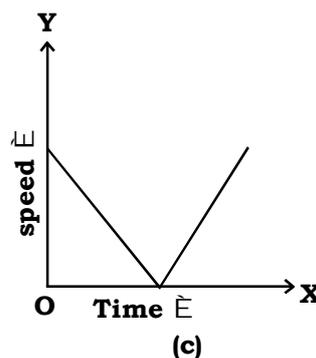
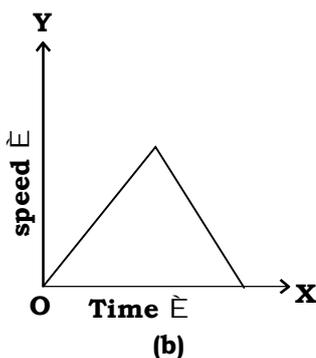
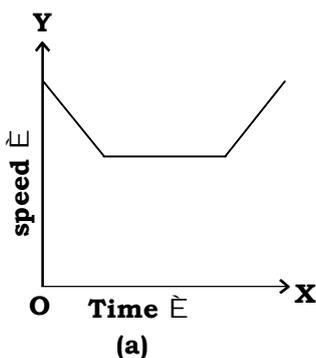
1. A mixture of two or more miscible liquids, for which the difference in the boiling points is less than 25 K can be separated by the process called_____.
2. What is lymph?
3. What is meristematic tissue?
4. Define one newton force.
5. The weight of a body cannot be expressed in

(a) Kg wt	(b) N
(c) Dyne	(d) Kg

Q : 2 Answer the following questions : [2 Marks]

16

6. Liquids generally have lower density as compared to solids. But you must have observed that ice floats on water. Find out why.
7. Convert the following temperature to the Celsius scale.
(a) 293 K (b) 470 K
8. Which of the following will show the "Tyndall effect" ?
(a) Salt solution (b) Milk
(c) Copper sulphate solution (d) Starch solution
9. What is osmosis ?
10. State the differences between tendon and ligament.
11. Write a short note on phloem.
12. Three speed - time graphs are give below :
Which graph represents the case of :
(i) A cricket ball thrown vertically upwards and returning to the hands of the thrower.
(ii) A trolley decelerating to a constant speed and then accelerating uniformly.

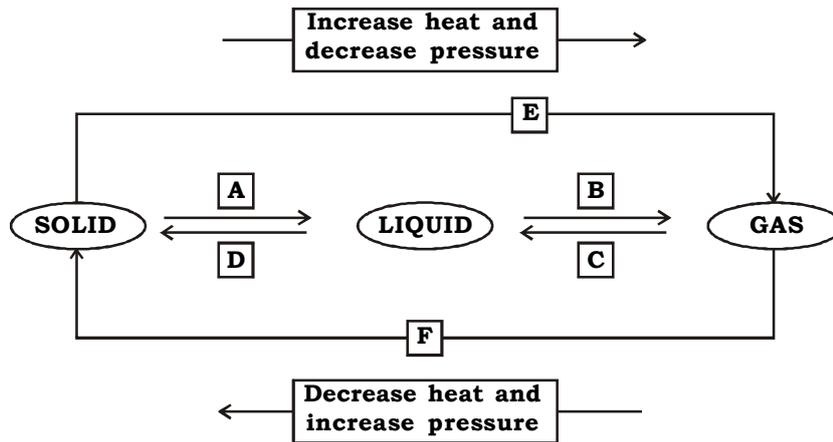


13. If a bus starts suddenly, where would the passengers and the bus will tend to fall in the backward direction.

Q : 3 Answer the following questions : [3 Marks]

24

14. Name A,B,C,D,E and F in the following diagram showing change in its state.



15. Classify the following into elements, compounds and mixtures :
- | | | |
|-------------|-----------------------|--------------------|
| (a) Sodium | (b) Soil | (c) Sugar solution |
| (d) Silver | (e) Calcium carbonate | (f) Tin |
| (g) Silicon | (h) Coal | (i) Air |
| (j) Soap | (k) Methane | (l) Carbon dioxide |
| (m) Blood | | |
16. Describe Golgi apparatus and state its functions .
17. What is collenchyma tissue and state its function?
18. What are plastids and explain its types?
19. A body moves from rest from a point A. It moves to another point B 10 s, the motion being accelerated one and achieves a velocity 60 m/s at B. It then moves on to C with the uniform velocity for 20 s when it is immediately brought to rest. Draw a graph showing the complete motion and calculate the total distance travelled.
20. Give reason - What is the use of seat belts in cars.
21. An automobile vehicle has a mass of 1500kg. What must be the force between the vehicle & road if the vehicle is stopped with a negative acceleration of 1.7ms^{-2} ?

Q : 4 Answer the following questions : [5 Marks]

15

22. Explain the following giving examples :
- | | |
|------------------------|--------------------|
| (a) Saturated solution | (b) Pure substance |
| (c) Colloid | (d) Suspension |
23. Draw a neat labelled diagram of Animal cell.
24. State Newton's second law of motion and derive the relation between force, mass and acceleration of an object.

★★★★ *Best of Luck* ★★★★★