CBSE MIXED TEST PAPER-13

CLASS - 9 SCIENCE

FIRST UNIT TEST

General Instruction:

• This Test paper contain 20 questions.

• All questions are compulsory.

SECTION – A

Q1. What can you say about the motion of an object whose distance – time graph is a straight line? [1]

Q2. Convert 20k and 300 k Celsius scale? [1]

Q3. What is dry ice? [1]

Q4. When solid melts, it s temperature remains the same, so where does heat energy go? [1]

Q5. Give S.I. unit of acceleration and uniform velocity. [1]

Q6. Why does a desert cooler work better on a hot dry day? [2]

Q7. State two properties of particles. [2]

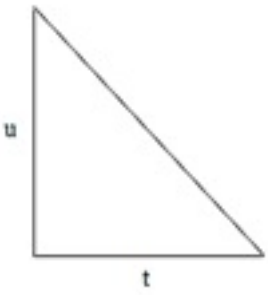
Q8. Draw neat and labelled diagram to represent sublimation? [2]

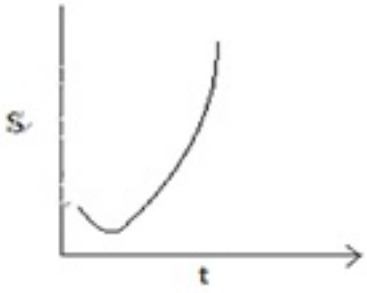
Q9. A gas exerts pressure on the walls of ht container? [2]

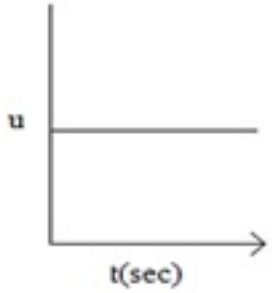
OR

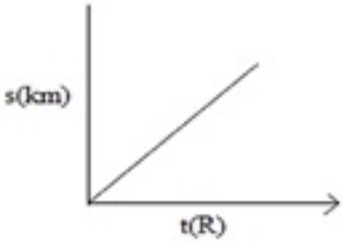
How does evaporation cause cooling?

Q10. What do following graphs represent? [2]

a. 

b. 

c. 

d. 

Q11. Why do you consider uniform circular motion as an accelerated motion? [3]

Q12. An object travels 16m in 4 seconds and then another 16m in 8 seconds. What is the average speed of the object? [3

OR

A car accelerates uniformly from 25m/sec to 45 m/sec in 5 seconds. Calculate its acceleration.

Q13. A ball is dropped from a height of 20m if its acceleration increases at the rate of $10m/sec^2$ with what velocity it strikes the ground and in what time? [3]

Q14. Derive first tow equations of motion graphically? [3]

Q15. Distinguish between:- [3]

a. Uniform and Non uniform motion
b. Distance and displacement
c. Speed and velocity

Q16. Why is the plasma membrane called a selectively permeable membrane? [1]

Q17. What does DNA stand for? [1]

Q18. State four differences between plant cell and animal cell? [2]

OR

How do prokaryotic cell differ from Eukaryotic cell?

Q19. Draw neat and labelled diagram of plant cell. [3]

Q20. State the main functions of [3]

a. Endoplasmic Reticulum
b. Mitochondria
c. Apical meristem
d. Xylem tissue
e. Stomata
f. Aerenchyma