પુ૰ના International School

Shree Swaminarayan Gurukul, Zundal

Student Name					
Date	14/07/2020	Grade	IX	Roll No.	
Subject	Science	Marks	50	Teacher's Sign	

Weekly Test

GENERAL INSTRUCTION:

- **The question paper contains 3 sections. Attempt all the section**
- **All questions are compulsory**
- **Section A contains one-word answer question.**
- **Section B contains very short answer question.**
- **Section C contains short answer question**

SECTION – A

A. Answer the following in one word: **[5 Marks]**

1 Who discovered cells in 1665?

2 What is called the structural and functional unit of life?

3 When v-t graph is parallel to x-axis, the body is_____

4. Which of the following solution will scatter light
(a) Colloidal solution
(b) Suspension
(c) Both
(d) None
.

5. Acceleration is a vector quantity, which indicates that its value

(a) Is always negative
(b) Is always positive
(c) Is zero
(d) Can be positive, negative or zero

SECTION – B

B. Answer the following in short: **[18 Marks]**

6. Where are proteins synthesized in the cell?
7. Why are lysosomes called the suicidal bags?
8. Why is plasma membrane called a selectively permeable membrane
9.What can you say about the motion of an object whose distance - time graph is a straight line parallel to the time axis?
10. An object has moved through a distance. Can it have zero displacement?
11. What does the odometer of an automobile measure? If yes, support your answer with an example.
12. What is a mixture? What are its types??
13.Differentiate between homogenous and heterogeneous mixture.
14. To make a saturated solution 36 grams of sodium chloride is dissolved in 100 grams of water at 293 K find its concentration at this temperature.

SECTION – C

C. Answer the following questions in brief: **[27 Marks]**

15. Make a comparison and write down the three ways in which plants are different from animals?
16 If the organization of a cell is destroyed due to some physical or chemical influence what will happen to cell?
17 What would happen to the life of a cell if there was no Golgi apparatus?

18 Distinguish between speed and velocity.
19 A train is travelling at a speed of 90 km h^{-1}. Brakes are applied so as to produce a uniform acceleration of – 0.5 m s^{-2}. Find how far the train will go before it is brought to rest.
20 An artificial satellite is moving in a circular orbit of radius 42250 km. Calculate its speed if it takes 24 hours to revolve around the earth.
21 Which preparation techniques will you apply for the following:
(a) Butter from curd
(b) Oil from water
(c) Tea leaves from tea
(d) Iron pins from sand
(e) Sodium chloride from its solution in water.
(f) Ammonium chloride from a mixture containing sodium chloride and ammonium chloride.

22 Explain the following giving examples
(a) pure substance
(b) colloidal
