# Abhinav IX Roll: 27 Science

### Section-A

- 1. Carbon diexide is known as dry ice when in solid form because it directly gets converted to gas without going brough the liquid state. And solid Carbon diexide also resembles ice in appelies
- 2. 1-pg LPG (liquified Petrolium Gas) is highy comprus.

  1) in the cylindur. It is weed for cooking.
  - 3. Rubberband only changes its shape when external porce is applied. It returns bouck to initial size when force is redeased.
- 4. When water evaporate, the remaining molecules absorb heat from the surroundings to make up for the lost. This causes coding. Water in earther pot is cool because the water is constantly evaporating. Explain properly with the example
  - 5 c) It can be site of energy generation

Aphirav IX Roll 27 Science 6. d)

- 7. A bactiria is a prokariotic cell, which means it lacks all membrane bound organelles. The not the case in onion peel cell.
- 8. Lysosomus are called scavengers because they digest the all the old and non-functioning organelles.
- 9.  $\sqrt{-1/2} = 2 \times 10/\times 5$ , 90 x 5 = 25 m/s 8100  $\sqrt{-1/2} = 2/\times 0.5/\times 5$

The initial velocity is 25 m/s

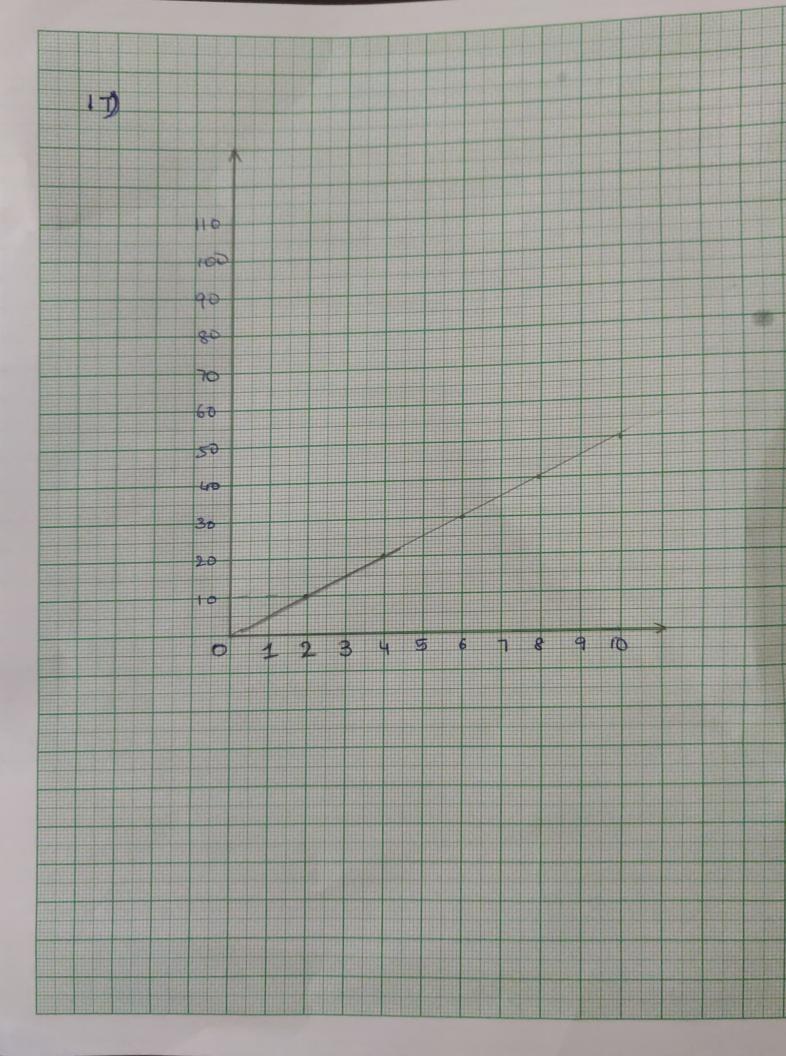
0-625 m/s = 2x -0.5 xs

-625 = -1x5

S = -625, 625m

classmate

|       |  | classmate                                      |
|-------|--|--|
|       |  | Date   |
|       | Abhinav to Rol   | Page Page                                      |
| 1     | 7 Slove = ample 1.   | - Tellore                                      |
|       | 7. Stope = accelaration  |  |
|       | and the second s | a siminfaha - a                                |
|       | -y2-y' 50-D  | = 50 = 5 m/s2                                  |
| 14.11 | 2-2 10-0   | = 50 = 5 m/s <sup>2</sup>                      |
|       |  | The sub-consens the                            |
| D.    |  |  |
|       | 2 = customal   | = JIY = 5J1 = 110 m                            |
|       | 1 10 10  | 7  |
|       | b) displacement = 5+   | 5 = 10m  |
| 14    | 4 M a d le donda   | all the bad all all and the                    |
|       | more all arrans  | at always att a secolar de                     |
|       | 1 0 01   |  |
|       | The state of the state of  |  |
|       | THE REAL PROPERTY OF THE PARTY  | re a coal amount to                            |
|       |  | it is record in our                            |
| 191   | a) Shape.  | an a a labeled a a me                          |
| 11/11 | Bolicls  | Gasses   |
| -al   | Solids have a proper shap  | gasses occupy the shape                        |
|       | some some a proper some  |  |
| 17    |  | of the contain &                               |
| (d    | Solids have a fixed valuable. It can't change  | Gasses take the volume                         |
|       | valunte. It can't change   | of the container. It is                        |
|       | 0  | not fined.                                     |
| ()    | Internalevular source is   | Tatangalanda                                   |
|       | Intermolecular space is<br>less least  | Intermolecular space is                        |
| · Z   | uss.   | the greatest in all states of                  |
|       | X  | matter not proper                              |
| e)    | So lids dont diffuse.  | egasses diffuse into liquids and other gasses. |
|       | minimum  | liquids and offer and                          |
|       |  | gasses.  |



## Abhinar Ix Roll: 27 Science

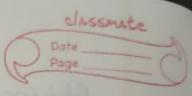
- 20. a) a golgi complex; b-mitocondia; En e - endoplasmic reticulum; e - Vacule.
  - b) B is the powerhouse. It is called so be cause it produces the ATP molecules which gives energy to the cell.
  - centre, but in the plants, it is on the edge as the vacule is occupying the space.
  - e) Nucleus has a membrane and is neatly organized it is present in eukariotic xells.

    Necluical is a non-membraneous and the genetic material is just scattered in the middle with some other neculear acids.

    This region is the nucleoid and is present only in the prokariotic rells.

Abhinav Ix Roll: 27 Beience

Section-B 21. This is due to the lateral heart of vaporization additional additional additional to break the water uses the supplied energy overcome intermolecular force of attraction by the bonds between them rather than 1.75 just heating up. This is why the temporature is constant. 22. Diffuscon is the movement of molecules from high consentration to low consentration. When the temporature invocases the nate of diffusion also increases. His is because the heat energy is absorbed and the kinetic energy increases. Because of this kinetic energy, the molecules move faster. Evaporation depends on: Temparature - when temparature is increased, the rate of evaporation encreases. ·) Surface area - As evaporation is a surface phenomina, the greater the surface, the faster the evaporation.

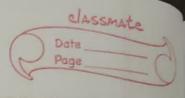


Humidity - Humidity affects evaporation. The more trumdity humid, the slower the evaporation.

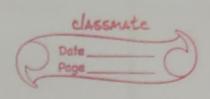
o) Windspeed when the wind blows, it corries a few particles of water along with it, then the more the wind, the more the evaporator a) This proass is plasmolysis. b) Aman placed the cell in the most salt consentrated beaker. by doing this In the blaker the salt content is high and water content is low. So, by osmosis the water from in the cell moves out. This shrinks the cell, this is ealled plasmolysss. 25 a) Glo Bromo-Luco plasts are present to store the various minerals and glucose. in leaves, the cloroplast is also present other cromoplasts are also present. b) In flowers and facils of the cromoplast and lucoplaste are present.

26. This shows that the car is moving with a uniform accelaration. The acceleration is: 10-7.5 = 2.5 = 25 = 25 = 25 = 25 = 50 The acceleration is: 10-7.5 = 2.5 (20-15)×60  $\frac{25}{3000} - \frac{1}{120} \frac{m/s^2}{}$ Section-C 27. a) Ammoniaum Chloridi. 3) C) Dry éce, and Jodine, napthaline 28. a) ice, because ice has will absorb some heat and get converted to water. This extra heat is called latent heat. His it will absorb head, it is more effective at cooling. 2.5) b) 873 - 273 = 600°C

300-273 = 27°C



| 29.       | Comatin contains the DNA. During =   |
|-----------|--|
|           | cell division, the Cromatin forms corona   |
| 3 22      | cromosomes. A cromosome has 2 identical  |
|           | halves called cromatid.  |
|           |  |
| 30.       | - 20-50 - and and some will  |
|           | 03x(31-05) 431 m 1 20 m  |
|           | 3000   |
| <u></u>   |  |
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| ~         |  |



## Bection - D.

31. a) Pur to osmosis, the apricots absorb water in pure water and when transfured to sugar solution, they shrink.

b) It sprinks.

c) The contents insich the cell min with the outsides. The cell is unable to perform the activities missarry for survival

El will be easless as the biologi aparatus needs to activate them.

32. ii)  $1\frac{1}{2}h = 90 \text{ mins} = 5400 \text{ s}$ 50km = 50000 m

50000 = 25 m/s = avarage speed

54000 = 27

# 25 Kmpm, 3, 12 8 8 30 10 20 15 15

iv) 2 5 Kmpn

