

## ENGLISH

- Q1. Your friend is weak in spoken English. What can you do to help him? Write in a paragraph.
- Q2. Your parents want you to study on Saturday when the rest of the class is going for a picnic. How can you persuade them? Write a conversation between you and your parents.
- Q3. What had just happened! Write a story in Present perfect tense by choosing any one of the following phrases:-
- Bad luck!
  - I am sorry!
  - Congratulations!
  - Bad idea!
  - Thanks goodness it's over!
- Q4. Present your opinions and arguments on any one of the following topics:-
- Bike is better than a car
  - It is more interesting to watch a Soap Opera than to watch the news
  - It is better to be a student than a teacher

Q5. Write a story based on the newspaper headlines.

## HINDI

1 अपने किन्हीं पाँच परिचितों के (अलग-अलग विषयों पर) साक्षात्कार ले कर उन्हें संवाद शैली में लिखो। ये पाँच आपके संबंधी भी हो सकते हैं।

## MATHEMATICS

### TASK – 1

**A. Find the number of schools affiliated to CBSE, using internet of the following states:**

- Rajasthan
- Gujarat
- Madhya Pradesh
- Uttar Pradesh
- Bihar
- Assam

Using above data, prepare a frequency table and represent it in Pie – chart as well as in bar graph also.

### TASK – 2

**B. Answer The following questions:**

- Find ten rational numbers between  $-\frac{2}{3}$  and  $\frac{1}{4}$ .
- Find three different irrational numbers between  $\frac{5}{7}$  and  $\frac{9}{11}$ .
- Classify the following numbers as rational or irrational:  
(i)  $\sqrt{23}$  (ii)  $\sqrt{225}$  (iii) 7.478478.... (iv) 1.101001000100001.....
- Examine, whether the following numbers are rational or irrational:
- (i)  $(\sqrt{2} + 2)^2$  (ii)  $(2 - \sqrt{2})(2 + \sqrt{2})$  (iii)  $(\sqrt{2} + \sqrt{3})^2$  (iv)  $\frac{6}{3\sqrt{2}}$

6. Represent  $\sqrt{11}$  on a number line ( semi – circle method ).
7. Prove that  $(\sqrt{2} + \sqrt{3})$  is an irrational number.
8. Rationalise the denominator in each of the following:
  - ( i )  $\frac{1}{7+\sqrt{3}}$       ( ii )  $\frac{2}{3+\sqrt{2}}$       ( iii )  $\frac{5}{4\sqrt{2}+3\sqrt{3}}$       ( iv )  $\frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$
9. If  $x = \sqrt{7} + \sqrt{3}$ , show that  $x - \frac{4}{x} = 2\sqrt{3}$
10. Represent the following numbers using spiral method;
  - ( i )  $\sqrt{2}$       ( ii )  $\sqrt{3}$       ( iii )  $\sqrt{5}$

### TASK – 3

- C. Using internet, find the distances of all 8 planets of our solar system from the sun and write them in usual form as well as in standard form.

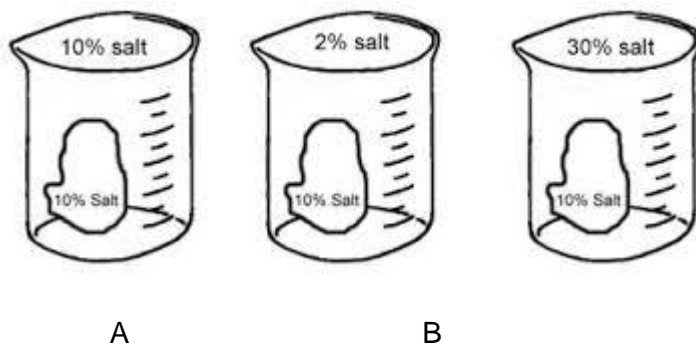
### SCIENCE

#### CHEMISTRY

1. Name the methods of separation of the following mixtures. Also give reasons to select that method. Write a short procedure to separate the mixtures and support your answer with suitable diagrams.
  - a. Salt from a mixture of sand and salt
  - b. Water from a mixture of kerosene and water
  - c. A mixture of ammonium chloride and sodium chloride
  - d. Cream from milk
  - e. Iron dust from a mixture of tea leaves and iron dust.

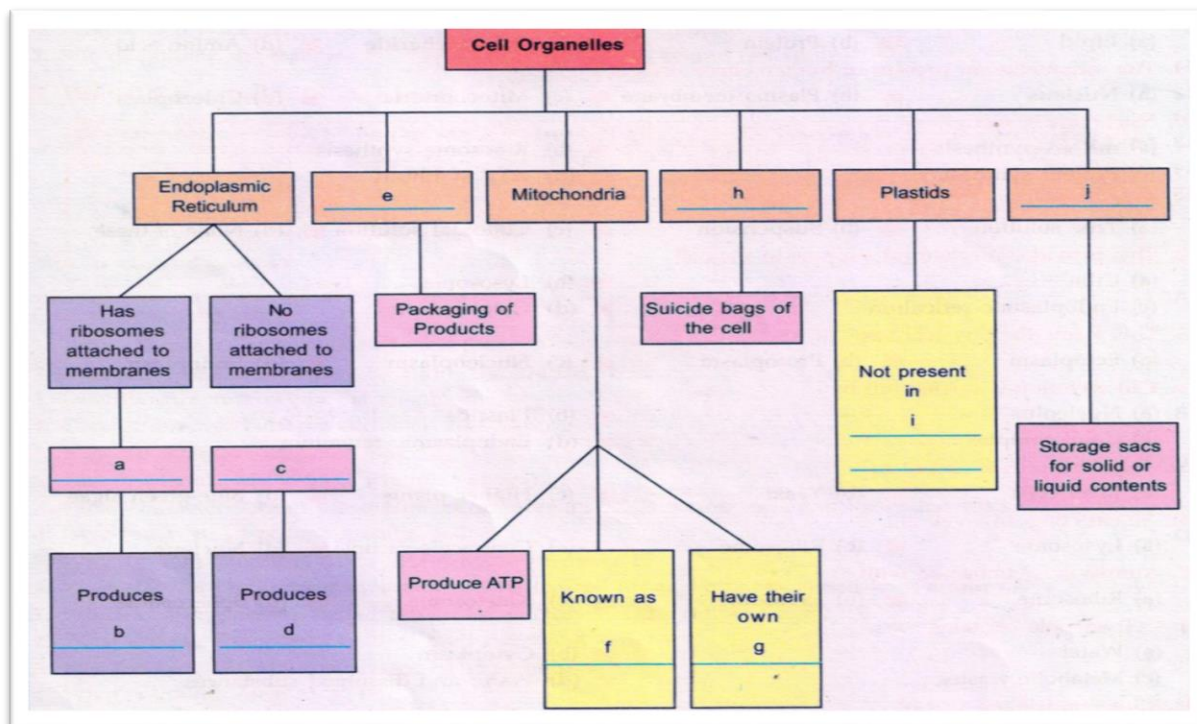
#### BIOLOGY

1. Draw colourful diagrams of animal cell and plant cell.
2. The diagram given below shows three beakers A, B and C containing 10%, 2% and 30% salt solution respectively. In each beaker there is a cell lying containing 10% salt solution.



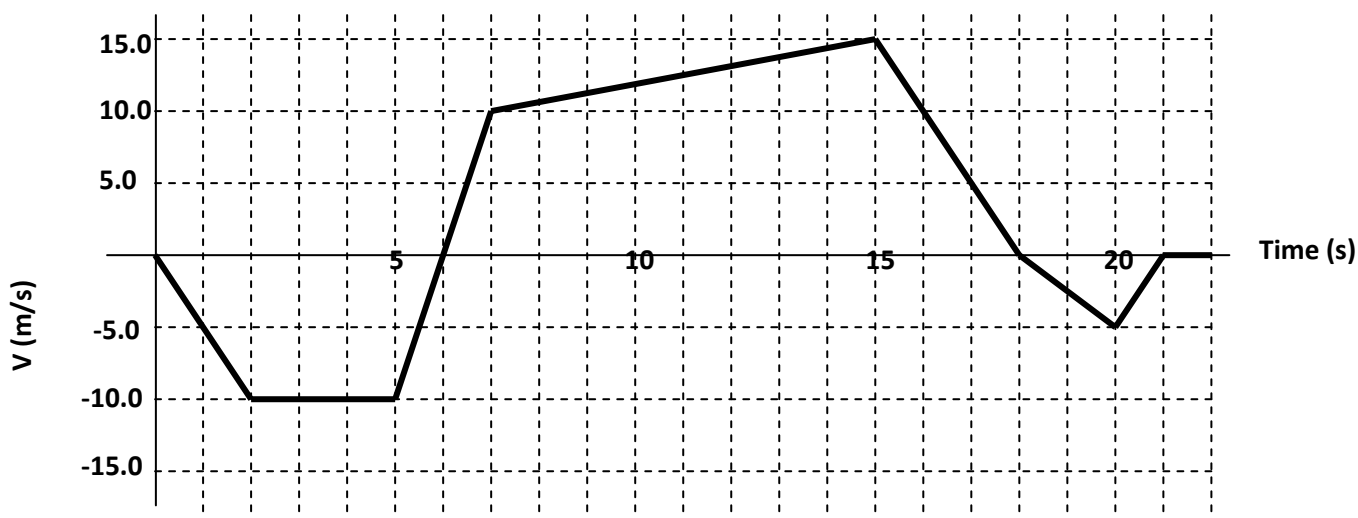
- a. What will happen to the cell in the beakers A, B and C respectively after 20 minutes.
- b. Which part of the cell is responsible for it and why?
- c. Name the type of solution in each beaker as compared to the cell solution.

3. Fill in the boxes.



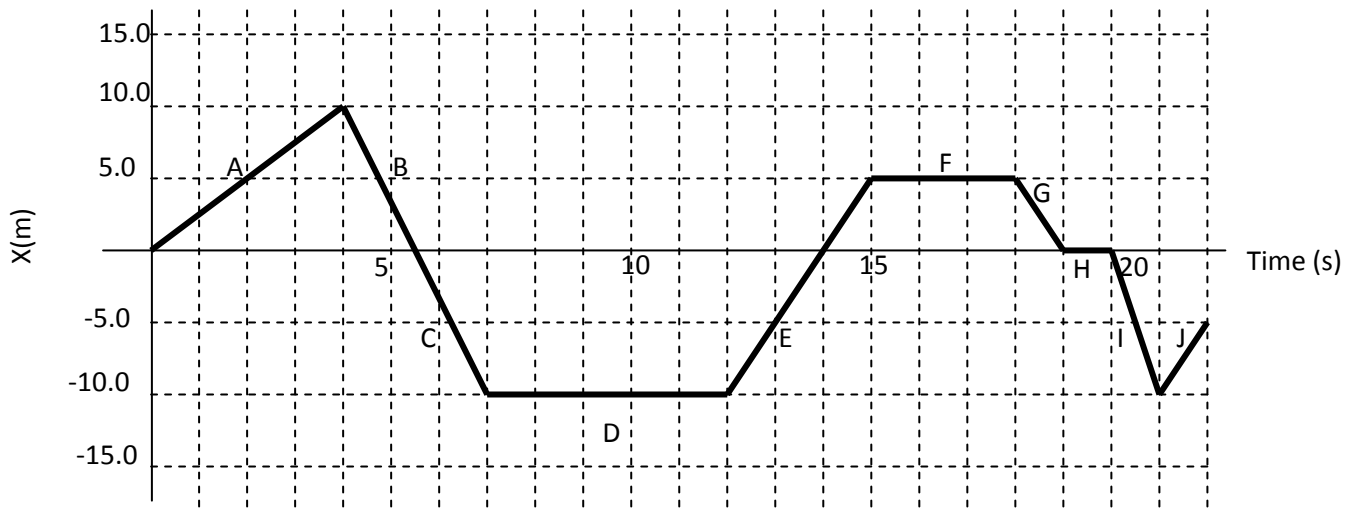
## PHYSICS

**Task1** The graph below describes the motion of a fly that starts out going left.



- Identify section(s) where the fly moves with constant velocity.
- Identify section(s) where the fly moves right slowing down.
- Identify section(s) where the fly moves left speeding up.
- When is the fly at rest?
- Identify the times when the fly changes direction.

**Task-2** Little Joey plays with his remote control car, and generates the motion graph below. The car starts by moving eastwards.



- Identify section(s) where the car moves with constant velocity.
- Identify section(s) where the car moves west.
- Identify section(s) where the car speeds up.
- When is the car at rest?
- What is the total displacement of the car from 0 to 22 seconds?

### SOCIAL SCIENCE

#### (Geography)

Find out Latitudinal and Longitudinal degrees of the following selected cities of India from Atlas and locate them on the political map of India with their degrees.

DELHI	JAIPUR	NAGPUR	MUMBAI	CHENNAI
IMPHAL	ALLAHABAD	SRINAGAR	KANYAKUMARI	AHMEDABAD

#### History

- Select anyone of the following non-democratic country in the world at present and write down about political, Social, and economic condition of that country.

**(Bhutan, Vietnam, Saudi Arabia, Libya, Cuba, Guantanamo Bay)**

The work should be done in A 4 size page .the whole project should not exceed more than 2 pages with pics.