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**SAI TUTORIALS** 

Std.: 8 (English) <u>General Science</u> Marks: 40

Cnap	υτe	r: 1 TO 8					
Q.1		Fill in the blank and rewri	te the completed stateme	ents			
1	1	The SI unit of pressure is					
2	2						
\$	3						
4	4	Water, mercury and bromin a. liquids b. compoun		because three are d. elements			
ŧ	5	An electron carries a charge.					
Q.2		Find the odd one out					
1	1 Brass, Bronze, Iron, Steel						
2	2	Water, Mercury, Bromine, Petrol					
3	3	Plague, AIDS, Cholera, T.B.					
Q.3		State True or False					
1	1 Water does not get polluted by washing the clothes in running water of river.						
2	2	Organ of locomotion in amoeba is pseudopodia.					
Q.4		Solve Numerical problems:(Any One)					
1	1	Volume of an object is 20cm <sup>3</sup> and the mass is 50g. Density of water is 1 gcm <sup>-3</sup> . Will the object float or sink in water?					
2	2	The density of a metal is $10.8 \times 10^3 \text{ kg/m}^3$ . Find the relative density of the metal.					
Q.5		Write Short Notes (Any Two)					
1	1	What is done to prevent corrosion of metals?					
2	2	Physical exercise / Yogasanas					
;	3	Plants synthesize glucose in sunlight with the help of chlorophyll from carbon dioxide and water and give away oxygen. Identify the four compounds in this process and name their types.					
Q.6		Complete the given flow chart / table / diagram					
1	1	Name of matter	Chemical composition	Main type of matter			
		Lime stone	CaCO <sub>3</sub>				
		Dilute hydrochloric acid	HCI + H <sub>2</sub> O		1		
Q.7		Distinguish between	1		1		
	1	Infectious and Non-Infectious Disease					
Q.8		Give scientific reasons (A	Any Three				

Fruits can easily be cut with a sharp knife.

The stainless steel vessels in kitchen have copper coating on the bottom.

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- 3 Atom is electrically neutral.
- 4 A solid matter has the properties of definite shape and volume.

## Q.9 Answer the following (Any Three)

- 1 What are the adverse effects of corrosion?
- 2 Classify the following pollutants into natural and manmade categories. (Sewage, dust, pollen grains, chemical fertilizers, vehicular smoke, algae, pesticides, waste of animals and birds)
- 3 Which living organisms are included in the kingdom monera?
- Write proper words from the following group of words in the blanks. (magnetism, 4.5V, 3.0V, gravitational attraction, potential difference, potential, higher, lower, 0V)
  - 1. Water in the waterfall flows from a higher level to the lower level because of ......
  - 2. In an electric circuit, electrons flow from a point of ...... potential to the point of ...... potential.
  - 3. The difference between the electrostatic potential of the positive end and the negative end of an electric cell is the ...... of the cell.
  - 4. Three electric cells of potential difference 1.5 V each have been connected as a battery. The potential difference of the battery will be ........... V.
  - 5. An electric current flowing in a wire creates ...... around the wire.

## Q.10 Answer the following in detail (Any One)

1 Match the pairs from 'A' and 'B' columns and explain the effect of pollution on human health.

Column - A	Column - B	
i. Water containing cobalt	a. Mental retardedness	
ii. Methane gas	b. Paralysis	
iii. Water containing lead	c. Inflammation of lungs	
iv. Sulphur dioxide	d. Skin cancer	
v. Nitrogen dioxide	e. Irritation of eyes	

**2** What is meant by valency of an element? What is the relationship between the number of valence electrons and valency?

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