

PVG's  
**Muktangan English School & Jr. College, Pune 9**  
**SUMMATIVE WRITTEN TEST – I (2024-2025)**  
**STANDARD - VIII**

**Subject: Science**  
**Date: 21/10/2024**

**Marks: 50**  
**Time: 8.00 am-10.00 am**

**Q.1-A) Fill in the blanks by choosing the appropriate option and rewrite the statement. (4)**

- 1) \_\_\_\_\_ controls all metabolic activities of the cell division.  
a) Mitochondria      b) Nucleus      c) Cell wall
  
- 2) Solids retain their volume even when external pressure is applied. This property is called \_\_\_\_\_.  
a) Plasticity      b) incompressibility      c) elasticity
  
- 3) \_\_\_\_\_ is used in the treatment of goitre, disease of thyroid gland.  
a) Sodium 24      b) Cobalt 60      c) Iodine 131
  
- 4) Tomato wilt is a \_\_\_\_\_ disease.  
a) Bacterial      b) Viral      c) Protozoal

**Q.1-B) Match the following. (2)**

- | A                    | B                     |
|----------------------|-----------------------|
| i) Methane gas       | a) Irritation of eyes |
| ii) Sulphur di-oxide | b) Skin cancer        |
|                      | c) Silicosis          |

**Q.1-C) State whether the following statements are true or false and rewrite them. (2)**

- a) The intensity of earthquake is measured in Richter scale.
- b) Elements which have same atomic number but different atomic mass number are called Isotopes.

**Q.1-D) Define the following. (2)**

- 1) Pollutants
- 2) Osmosis

**Q.2-A) Give scientific reasons for the following (Any 3) (6)**

- 1) Constituent substance of a colloid can't be separated by ordinary filtration.
- 2) All the mass of an atom is concentrated in the nucleus.
- 3) Sodium metal is kept in kerosene.
- 4) In monsoon, don't take shelter near hill side.

**Q.2-B) Distinguished between the following by giving any two points of difference (Any 2) (4)**

- 1) Plant cell and Animal cell
- 2) Compound and Mixture
- 3) Prokaryotic cell and Eukaryotic cell

**Q.3-A) Write short notes on the following (Any 2) (6)**

- 1) Methods of fire extinguisher
- 2) Alloy
- 3) Rutherford's nuclear atomic model.

**Q.3-B) Answer the following in one sentence (Any 4) (4)**

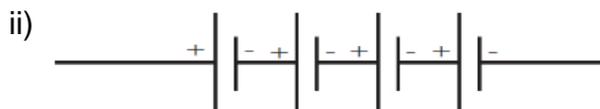
- 1) What is Health?
- 2) Define: Unit current
- 3) What is inertia?
- 4) What do you mean by valence electrons?
- 5) What is suspension?

**Q.4-A) Answer the following in brief. (Any 3) (6)**

- 1) Explain the structure of 'Dry cell'.
- 2) State any 4 uses of Noble Metals.
- 3) State any 2 preventive measures of air pollution.
- 4) State symptoms of cancer. (Any 2).

**Q.4-B) Answer the following questions. (Any 2) (4)**

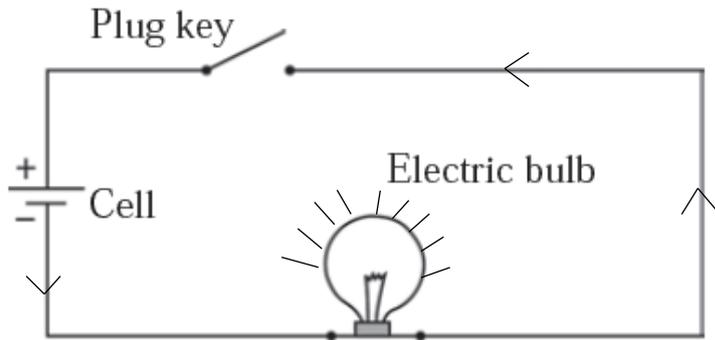
- 1) Electric cells having 1.5 V potential difference each have been connected in the form of a battery. What will be the potential difference of the battery in both the cases?



- 2) By using formula  $2n^2$  for electron capacity complete the following table:

Shell symbol	n	No. of electrons
K	1	<input type="text"/>
L	<input type="text"/>	8
<input type="text"/>	3	18
N	4	<input type="text"/>

3) Identify the mistakes from the diagram and re-draw it.

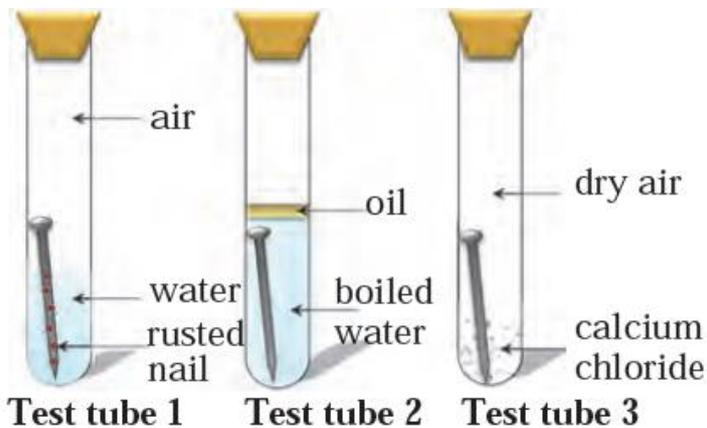


**Q.5-A) Draw a neat and well labelled diagram (Any 2) (6)**

- 1) Mitochondria
- 2) Electronic configuration of Argon (Atomic number 18)
- 3) Any four types of Bacteria.

**Q.5-B) Answer the following questions in detail (Any 1) (4)**

- 1) Explain construction and working of 'Electric Bell' with the help of neat and well labelled diagram.
- 2) Observe the given diagram and answer the following questions.



- a) What is corrosion?
- b) Why the nail in test tube 2 is not rusted?
- c) Would the nail in test tube 3 get rusted? Give appropriate reason for the same.

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