

PVG's
Muktangan English School & Jr. College,
Pune –9
UNIT TEST – I (2024-2025)
STANDARD - X

Subject: Science & Technology (Part I)

Marks: 10

Date: 09/08/2024

Time: 9.30 am to 10.45 am

Q1-A) Fill in the blanks and rewrite the statements. (2)

- 1) The weight of a body is maximum at the _____.
- 2) If the height of the satellite orbit above the earth's surface is in between 2000 km and 35780 km, the orbits are called _____ earth orbits.

Q1-B) State Kelper's first law. (1)

Q2- Answer any two of the following questions. (Any 2) (4)

- 1) Why it is beneficial to use satellite launch vehicles made of more than one stage?
- 2) A tennis ball is thrown up and reaches a height of 4.05 m before coming down. Calculate its initial velocity. (Assume $g = 10\text{m/s}^2$).
- 3) Give scientific reason-
Atomic radius goes on increasing down a group.

Q3 - Answer any one of the following questions. (3)

- 1) An element has its electron configuration as 2, 8, 2 answer the following questions given below.
 - a) What is the atomic number of this element?
 - b) What is the group of this element?
 - c) To which period does this element belong?
- 2) Distinguish between Mendeleev's periodic table and Modern periodic table by giving at least 3 points of distinction.
