



P.V.G.'s  
**Mukhtangan English School & Jr. College,**  
44, Vidyanagari, Parvati, Pune - 411009.

**Unit Test - I (2025-26)**  
**Standard - IX**

Subject : Science & Technology (Part - I)

Marks : 10

Date : 11.08.2025

Time : 9.45 am to 10.30 am

**Q1. A) Fill in the blanks and rewrite the sentences. (2)**

- 1) Momentum is product of mass and \_\_\_\_\_.
- 2) The total number of protons and neutrons present in the atomic nucleus is called \_\_\_\_\_.

**B) Define : Newton's Third Law of Motion. (1)**

**Q2. Answer the following questions. (Any 2) (4)**

- 1) Give scientific reason :  
"When an object falls freely to the ground, its acceleration is uniform".
- 2) State 'Law of constant proportion' with the help of an example.
- 3) State difference between 'Uniform and non - uniform motion' with the help of any 2 points of difference.

**Q3. Attempt any one. (3)**

- 1) An object of mass 18 kg is moving with an acceleration of  $4 \text{ m/s}^2$ . Calculate the applied force. If the same force is applied on an object of mass 12 kg, how much will be the acceleration?
- 2) Observe the given graph and hence derive an equation describing relation between 'displacement and time'.



