



P.V.G.'s
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Unit Test - I (2025-26)
Standard - X

Subject : Science & Technology (Part - I)

Marks : 10

Date : 12.08.2025

Time : 9.45 am to 10.30 am

Q.1 A) Fill in the blanks and rewrite the statements. (2)

1. The gravitational force between two bodies separated by a distance 'r' varies as _____.
2. The group 17 contains the members of _____ family.

B) State the ' Modern periodic law' (1)

Q.2 Answer any two of the following questions (4)

1. Give scientific reason -
Elements belonging to the same group have the same valency.
2. A metal of mass 5 kg falls from a height of 490m. How much time will it take to reach the ground ? ($g = 9.8 \text{ m/s}^2$)
3. Distinguish between Universal gravitational constant (G) and Acceleration due to gravity (g) by giving at least 2 points of distinction.

Q.3 Answer any one of the following questions (3)

1. Write any three demerits of Mendeleev's periodic table?
2. What is meant by an artificial satellite? Name any two types of artificial satellite and write any one function of it.



