



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

PERIODIC TEST I (2025-26) SCIENCE

Class: VIII
Date: 04 /07/2025

Duration: 1 Hr
Max. Marks: 25

ANSWER KEY

Section A

1. (c) Gold 1
2. (c) Newton 1
3. (c) They do not cause pollution 1

Section B

4. i. Greasing, oiling and painting 2
ii. Galvanisation, Tinning, Electroplating, Alloying.
5. A displacement reaction is a chemical reaction where a more reactive element replaces a less reactive element in a compound. 2
 $\text{Zn} + \text{CuSO}_4 \rightarrow \text{ZnSO}_4 + \text{Cu}$ (If any other suitable accepted)

6. Weight on mattress = Force on mattress = 400 N 2

Area of the weight = 0.02 m^2

Pressure is defined as the force acting on an object per unit area, i.e.

$$\text{Pressure} = \frac{\text{Force}}{\text{Area}} = \frac{400}{0.02} = 20,000 \text{ pascals}$$

7. The statement in option (b) is correct. The pressure exerted by a force on a given area is equal to the force divided by the area it acts on. Therefore, if we increase the area on which the force acts, the pressure exerted by the force will decrease. 2
8. A cultivated plant that is grown on a large scale commercially, especially a cereal, fruit, or vegetable. Eg. Oats, barley (any two examples) 2

Section C

9. (a) Metals are lustrous, sonorous, malleability, Ductile etc. (any 2) 3
(b) "We should store lemon pickle in a glass container, not in a copper container because lemon is acidic in nature, and this acid can react with the copper metal. This chemical reaction may give rise to an unwanted taste or smell and may even form harmful products."

10.

Contact Force	Non-contact force
<ul style="list-style-type: none"> Forces that arise as a result of an interaction between objects that are in physical contact with one another are called contact forces. 	<ul style="list-style-type: none"> Forces that arise due to an interaction between objects that are not in physical contact with one another are called non-contact forces.
<ul style="list-style-type: none"> For example, when a person pushes a desk, they exert a contact force on it. 	<ul style="list-style-type: none"> For example, when a magnet attracts an iron nail from a distance, it exerts a non-contact force on the iron nail.

3

11. It can lead to poor germination, increased weed growth, and reduced nutrient availability, ultimately affecting crop yield and soil quality. 3
12. Seed drills ensure uniform seed placement, better germination rates, and reduced seed wastage, ultimately leading to improved crop yields and easier weed control. 3