

DELHI PUBLIC SCHOOL, JAMMU
SESSION (2024-2025)
ASSIGNMENT-1

Class – VIII

Subject – Science

Topic: Force and Pressure and Friction

1. Four children were asked to arrange forces due to rolling, static and sliding frictions in a decreasing order. Their arrangements are given below. Choose the correct arrangement. **(1)**

- (a) rolling, static, sliding
- (b) rolling, sliding, static
- (c) static, sliding, rolling
- (d) sliding, static, rolling

2. In the following question, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

- a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).**
- b) Both assertion (A) and reason (R) are true but (R) is not the correct explanation of (A).**
- c) Assertion (A) is true but reason (R) is false.**
- d) Assertion (A) is false but reason (R) is true.**

Assertion (A): A nail pierces through wood more easily when pressure is applied with a hammer. **(1)**

Reason (R): Increasing force increases the pressure exerted on a surface.

3. What is the SI unit of pressure? **(1)**

- a) Pascal
- b) Newton
- c) Joule
- d) Watt

4. A solid body weighs 250 N. When placed on a wooden plank, the area of contact is found to be 10 m². Find the pressure exerted by the solid body on the wooden plank. **(2)**

5. You spill a bucket of soapy water on a marble floor accidentally. Would it make it easier or more difficult for you to walk on the floor? **(2)**

6. Explain why

(3)

- (a) a heavy truck is fitted with six to fourteen tyres
- (b) why sportsmen use shoes with spikes.
- (c) foundation of high-rise buildings are kept wide.