INDIAN SCHOOL NIZWA - WORKSHEET

PHYSICS

CH: 5 EXPLORING FORCES

Name: _____ Date:_____ Class: VIII Sec: _

1. Which of the following is not an example of the force of gravity?

[A]. A leaf falling from a tree.
[B]. A boy pushing a cart on a level plane.
[C]. A diver jumping into a swimming pool.
[D]. A stone falling from the top of a cliff.

2. During dry weather, while combing hair, sometimes we experience hair flying apart. The force responsible for this is:
[A]. Force of gravity.
[B]. Electrostatic force.
[C]. Force of friction.
[D]. Magnetic force.

3. Two objects repel each other. This repulsion could be due to:

[A]. Frictional force only
[B]. Electrostatic force only
[C]. Magnetic force only
[D]. Either a magnetic or an electrostatic

4. Which one of the following forces is a contact force?
[A]. Force of gravity
[B]. Force of friction
[C]. Magnetic force
[D]. Electrostatic force

5. If we release a magnet held in our hand, it falls to the ground. The force responsible for this is:
[A]. Muscular force
[B]. Magnetic force
[C]. Electrostatic force
[D]. Gravitational force

6. The magnitude of force is expressed in the unit of force called:
[A]. Pascal
[B]. Kelvin
[C]. Newton
[D]. Magdeburg

7. Which of the following is not an effect of force?
[A]. A force can change the speed of a moving object
[B]. A force can change the direction of a moving object
[C]. A force can change the composition of a moving object
[D]. A force can change the shape and size of an object

8. Two boys A (left side) and B (right side) are applying force on a block. If the block moves towards the right, which one of the following statements is correct?
[A]. Magnitude of force applied by A is greater than that of B.
[B]. Magnitude of force applied by A is smaller than that of B.
[C]. Net force on the block is towards A.
[D]. Magnitude of force applied by A is equal to that of B.

9. The mass of an object is 10Kg. Its weight on the surface of earth will be :
[A] 10N
[B] 100N
[C] 1N
[D] 0N

10. The weight of an object on earth is 120N. Its mass will be:
[A] 12N
[B] 12kg
[C] 120 kg
[D] 120 N

11. The upward force experienced by a solid which is immersed in a liquid is called
[A] Gravity
[B] frictional force
[C] Buoyant force
[D] Electrostatic force

12. Force acting on a surface in a direction perpendicular to it is known as
[A] thrust
[B] force
[C] pressure
[D] density

The following two questions consist of two statements – Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below:

A. Both A and R are true, and R is the correct explanation of A.

B. Both A and R are true, and R is not the correct explanation of A.

C. A is true but R is false.

D. A is false but R is true

13. **Assertion (A):** In the game of tug of war, sometimes the rope doesn't seem to move to any side even if strong forces are applied from both sides.
Reason (R): If the forces acting on a body are equal and opposite, the net force will be zero.

14. **Assertion (A);** Two balloons rubbed with woollen cloth repel each other.

    Reason (R): Unlike charges repel each other.

15. Assertion (A): Some objects float in water, while others sink.

    Reason (R): If the density of the object is greater than water, it will float.