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**FORMATIVE ASSESSMENT-2**

**PHYSICAL SCIENCE-3rd Chapter**

**9th Class- CCE Model**

**Time: 45 min.** **2016-17** **Max. Marks: 20.**

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**Name : _____**

**Sec : _____ Roll No : _____**

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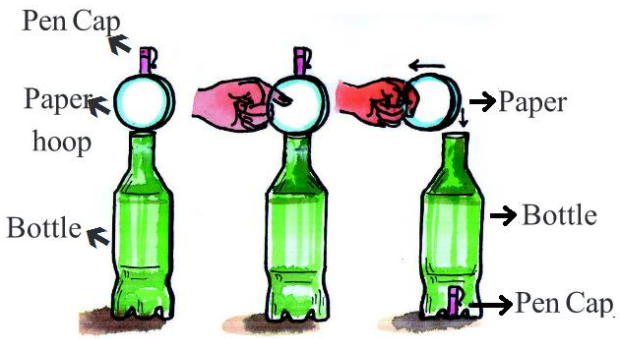
**I. Answer the following Long answer type questions.** **4M X 2 = 8**

1. Observe the following figure and answer the questions.




a) Which law is explained by this activity?

b) Which physical quantity is involved in this activity?

c) State that physical quantity.

d) What are your observations from the above activity?

2. Your friend asks you the relation between force and acceleration. How do you make him to know it? Explain.

**II. Answer the following Short answer type questions.** **2M X 2 = 4**

3. There are two solids made up of Iron and wood of the same shape and same volume. Which of them would have highest inertia? Why?
4. In order to move a cart with a constant speed, a horse needs to apply a continuous force on it. Are you agree with this statement? Explain.

**III. Answer the following Very Short answer type questions.** **1M X 2 = 2**

5. Air bags are used in cars for safety. Why?
6. To get an acceleration of $3m/s^2$ of an object of mass 0.5Kg, how much force is required?

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**IV. Choose the correct answer of the following.** **1M X 6 = 6**

7. Arrange the statements in correct order? **( )**

(i) Inertia is the cause for this.

(ii) The person falls backward in the bus.

(iii) A person standing on the bus which is at rest.

(iv) When the bus begins to move suddenly.

(a) (ii),(iv),(i),(iii) (b) (iii),(iv),(ii),(i) (c) (ii), (iii),(iv),(i) (d) (iii), (ii), (i),(iv)

8. A water tanker filled up to 2/3 $^{rd}$ of its height is moving with a uniform speed. When the break is applied suddenly the water in the tank would **( )**

(a) moves backward (b) moves forward (c) be unaffected (d) rise upwards

9. Match the physical quantities given in Column I with their appropriate units given in Column II. **( )**

| Column I | Column II |
|---|---|
| A. Force | 1. Kilogram |
| B. Momentum | 2. Newton |
| C. Mass | 3. Newton-Sec |

Codes

| | A | B | C | | A | B | C |
|---|---|---|---|---|---|---|---|
| (a) | 3 | 2 | 1 | (b) | 1 | 3 | 2 |
| (c) | 2 | 3 | 1 | (d) | 2 | 1 | 3 |

10. The below figure is the example of **( )**

(a) Newton's I law (b) Newton's II law (c) Newton's III law (d) None

11. Which statements of the following are correct? **( )**

(i) Newton's first law explains what happens to an object when no net force acts on it.

(ii) Newton's second law explains what happens to an object when non-zero net force acts on it.

(iii) Momentum is the sum of the mass and velocity.

(iv) Mass of an object is the measure of inertia.

(a) (i) and (iii) (b) (ii), (iii) and (iv) (c) (i), (ii) and (iv) (d) (i), (ii). (iii) and (iv)

12. Action and reaction are **( )**

(a) always act on the same body

(b) always act on different bodies in opposite directions

(c) have same magnitudes and directions

(d) act on either body at normal to each other

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