

**FIRST MID TERM EVALUATION JULY : 2016 -'17**

Time : 45 mts

Std. IX

**PHYSICS**

Total Score : 20

*Instructions:*

- Attempt the questions based on the instructions provided.
- Score for each question is provided against the concerned question.

1. Which of the following is responsible for surface tension ? 1  
(buoyant force, adhesion force, cohesion force, viscous force)
2. Find the relation in the first pair and fill the blank in second pair. 1  
Density :  $\text{kg/m}^3$   
Momentum : .....  
*acceleration*
3. a) State Pascal's Law. 1  
b) Name two devices which work on the principle of Pascal's Law. 1
4. a) Which type of force can cause motion balanced or unbalanced force? 1  
b) Write an example to prove this. 1
5. When a hydrometer is dipped in water the surface of water is at the marking. 1  
a) If the Hydrometer is dipped in a liquid of density greater than that of water. State whether the liquid surface be below or above the marking of 1? 1  
b) Why does the markings on the hydrometer increase towards the bottom? 1
6. According the Newton's ~~Third~~ Law of motion "To every action there is an equal and opposite reaction." But they never cancel each other out.

- reaction. But they never cancel each other. Do you agree with this? Justify your answer. 2
7. Classify the following into viscous liquids and mobile liquids. 2  
(kerosene, glycerin, petrol, honey, water)
8. A car starting from rest travels 100 m in 8 second with uniform acceleration. Find the acceleration of the car. 2
9. Ploughing of land before summer helps to retain moisture in the soil.  
a) Name the scientific principle helps to explain this. 1  
b) Explain this on the basis of the principle identified by you. 2
10. Draw the position-time graph with the given data using suitable scale. 3

Time (s)	0	15	30	45	60	75	90
Position (m)	0	25	50	75	100	125	150