

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 ? www.shenischool.in 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 : kg/m^3

acceleration
Momentum :

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.

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. 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.
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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. www.shenischool.in 3

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