



# PHYSICS

## BOOKS - MAXIMUM PUBLICATION

### MODEL PAPER 1

#### Example

1. Identify the relation between the first pair and complete the second.

Hydrometer: Law of floatation.

Excavator: \_\_\_\_\_.



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2. Write down the unit of impulse.



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3. If the distance between two bodies that attract each other is doubled, how many times more will be their mutual force of attraction?



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4. A stone and a sheet of paper are dropped together. Which of the following statements regarding their fall is true?

- Both of them reach simultaneously
- The paper reaches first
- The stone reaches first



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5. Write down an activity to prove inertia of rest.



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6. A car starts from rest and covers 25m in 5s.  
Calculate the acceleration of the car.



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7. What are the two factors that influence buoyancy.



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8. Find out the reasons for the following.

A ship floats on water.



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## 9. Give reasons

A piece of chalk is used to blot ink.



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## 10. Find out the reasons for the following.

When a body was placed in a liquid it remained in the same position.



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**11.** Find out the displacement between 10 s and 20 s from the graph.



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**12.** Give three differences between mass and weight.



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**13.** State universal law of gravitation. Derive the formula for finding gravitational force of attraction.



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**14.** Rockets are used to launch artificial satellites.

State the law of motion related to the rocket launching



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**15.** Rockets are used to launch artificial satellites.

Write down the life situations related to this law.



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**16.** Rockets are used to launch artificial satellites.

Write down a class room activity to illustrate this law.



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**17.** If the velocity of a train starting from rest becomes  $72 \text{ km/h}$  in  $400 \text{ s}$ ,  
What is its acceleration?



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**18.** If the velocity of a train starting from rest becomes  $72 \text{ km/h}$  in  $400 \text{ s}$ ,

Calculate the distance travelled by the train within this time interval.



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**19.** What is viscosity?



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**20.** What is the relation between viscosity and temperature?



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21. Why is it said that the body of a person who gets an electric shock should be massaged well?



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