

FIRST TERMINAL EVALUATION 2025-26

Physics

Class: VIII

Prepared by www.educationobserver.com

Time: 40 Minutes

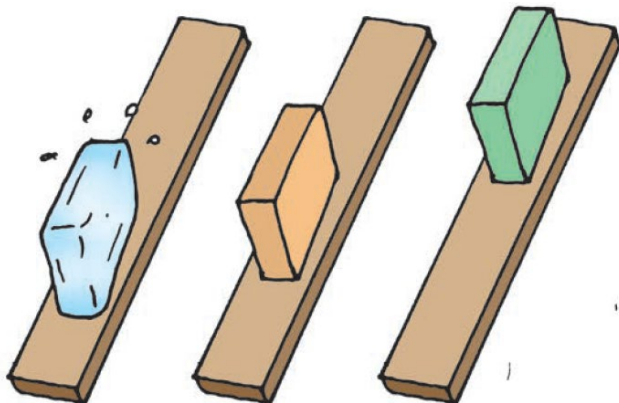
Score: 20

Section A: Multiple-Choice Questions (Answer any 3 out of 4, 1 score each, Total: 3)

1. Which of the following is a derived physical quantity?
(a) Length (b) Mass (c) Area (d) Time
2. A book placed on a table is observed by a person standing still. With respect to the table, the book is in a state of:
(a) Motion (b) Rest (c) Acceleration (d) Friction
3. Identify the correct unit representation from the following:
(a) 15.2 m (b) 15 m.2 m (c) 25 kgm (d) 10 pa
4. Which of these units does not measure length?
(a) mm (b) km (c) kg (d) cm

Section B: Short-Answer Questions (Answer any 4 out of 5, 2 scores each, Total: 8)

5. Based on the fundamental physical quantity mass, answer the following:
(a) What is the SI unit of mass? (1)
(b) How many grams are there in one kilogram? (1)
6. Calculate the speed of a bicycle that travels 120 meters in 8 seconds. Express the answer in m/s. (2)
7. Classify the following situations into uniform speed or non-uniform speed:
(a) A ball rolling down an inclined plane. (1)
(b) A planet orbiting the Sun in a circular path at constant speed. (1)
8. Refer to Figure (Wooden block, ice block, and rubber piece sliding on an inclined plane).

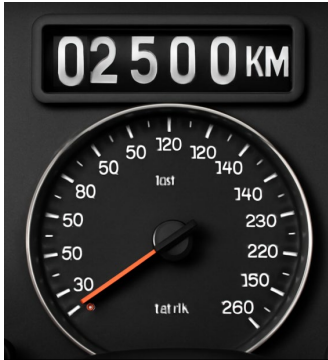


- (a) Which object is likely to experience the least friction? (1)
(b) Explain why. (1)

9. "Friction can be both helpful and harmful." Write one advantage and one disadvantage of friction in daily life. (2)

Section C: Long-Answer Questions (Answer any 3 out of 4, 3 scores each, Total: 9)

10. Refer to Figure



- (a) If the odometer shows 2500 km, how many meters has the vehicle traveled? (1)
(b) If the vehicle travels this distance in 5 hours with uniform speed, calculate its speed in m/s. (2)
11. A student measures the thickness of 50 sheets of paper stacked together using a scale and finds it to be 5 mm.
(a) Calculate the thickness of one sheet of paper. (1)
(b) Express this thickness in micrometers. (1)
(c) Why is a scale not suitable for directly measuring the thickness of a single sheet? (1)
12. A car starts from rest and reaches a speed of 20 m/s in 5 seconds.
(a) Calculate the acceleration of the car. (2)
(b) Is this motion uniform or non-uniform? Explain. (1)
13. (a) Name one lubricant used in machines. (1)
(b) Explain how the shape of an object, like an airplane, helps reduce friction. (2)