FRICTION

Subtopic: Introduction, Force of friction.

Section 1

1 Mark T for True or F for False.

I a. Friction and force acts in the same direction. ☐

1 b. The friction is same for all the surfaces. ☐

2 Choose the correct answer.

Which of the statements are true?

a) If the forces are applied along the left, friction acts along the right.
b) If the forces are applied along the right, friction acts along the left.
c) Both a and b.
d) None of the above.

Section 2

3 Fill in the blanks.

Friction opposed _____ between the two surfaces of the objects.

4 Give your answer for the following.

Gently push a book on the table. You observe that it stops after moving for some distance. Repeat this activity pushing the book from the opposite direction. Does the book stop this time too? Give your reasons.

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Section 3

Answer the questions in brief.

5. Is the friction same for all the surfaces? Explain.

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6. Define force of friction. Give examples.

7. Why does a vehicle slows down when brakes are applied?

8. Why do we slip when we step on a banana peel?

Section 4

Answer the questions in detail.

9. Explain about friction and give necessary detailed examples.

10. Explain about the force of friction with necessary examples in detail.