



PHYSICS

BOOKS - MBD

FRICTION

Example

1. Fill in the blank

Friction opposes thebetween the surfaces in contact with each other.



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2. Fill in the blanks

Friction depends onof surfaces.



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3. Fill in the blanks

Friction produces.....



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4. Fill in the blanks

Sprinkling of powder on the carom board
.....friction.



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5. Fill in the blanks

Sliding friction isthan the static
friction.



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6. Four children were asked to arrange forces due to rolling, static and sliding frictions in decreasing order. Their arrangements are given below. Choose the correct arrangement.

- A. rolling, static, sliding
- B. rolling, sliding, static
- C. static, sliding, rolling
- D. sliding, static, rolling.

Answer:



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7. Alida runs her car on the dry marble floor, wet marble floor, newspaper and towel spread on the floor. The force of friction acting on the car on different surfaces in increasing order will be

A. (A) wet marble floor, dry marble floor, newspaper and towel

B. (B) newspaper, towel, dry marble floor, wet marble floor.

C. (C) towel, newspaper, dry marble floor,
wet marble floor.

D. (D) wet marble floor, dry marble floor,
towel, newspaper.

Answer:



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8. Suppose your writing desk is tilted a little. A book kept on it starts sliding down. Show the direction of frictional force acting on it.



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9. You spill a bucket of soapy water on a marble floor accidentally. Would it make it easier or more difficult for you to walk on the floor?

Why ?



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10. Explain why sportsmen use shoes with spikes.



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11. Iqbal has to push a lighter box and Seema has to push a similar heavier box on the same floor. Who will have to apply a larger force and why?



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12. Explain why sliding friction is less than static friction.



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13. Give examples to show that friction is both a friend and a foe.



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14. Explain why objects moving in fluids must have special shapes.



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15. While pushing a heavy box from one place to another in his house, Naresh noticed that it was difficult to take a stationary box from its resting position to moving position but it was easy to move that box with that speed. Why was it so?

A. (A) Sliding friction is less than static friction

B. (B) Static friction is less than sliding friction

C. (C) The weight of the box decreases

D. (D) None of the above

Answer:



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16. Why does a body stop after rolling down for some time ?

A. magnetic force

B. electrostatic force

C. frictional force

D. Both electrostatic force and frictional force.

Answer:



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17. You spill a bucket of soapy water on a marble floor accidentally. Would it make it easier or more difficult for you to walk on the floor?

Why ?

A. Frictional force increases

B. Frictional force decreases

C. sometimes frictional force increases

D. it is impossible to apply more muscular
force

Answer:



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18. Alida runs her car on the dry marble floor, wet marble floor, newspaper and towel spread on the floor. The force of friction acting on the car on different surfaces in increasing order will be

A. cemented floor, water, towel, marble floor, ice

B. marble floor, cemented floor, water, ice, towel

C. ice, water, marble, towel, cemented floor

D. water, ice, marble, cemented floor, towel

Answer:



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19. Static friction works when:

A. an attempt is made to bring an object

from motion to rest form

B. an attempt is made to bring an object

from rest form to motion

C. we do not want to bring any change in
the situation of an object

D. none of the above

Answer:



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20. Rolling friction is:

A. more than static friction

B. equal to static friction

C. less than static friction

D. sometimes more than static friction and
sometimes less than static friction.

Answer:



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21. Four children were asked to arrange forces due to rolling, static and sliding frictions in decreasing order. Their arrangements are given below. Choose the correct arrangement.

A. rolling, static, sliding

B. rolling, silding, static

C. static, sliding, rolling

D. sliding, static, rolling

Answer:



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22. Alida runs her car on the dry matble floor, wet marble floor, newspaper and towel spread on the floor. The force of friction acting on the

car on different surfaces in increasing order will be

A. wet marble floor, dry marble floor, newspaper and towel

B. newspaper, towel, dry marble floor, wet marble floor.

C. towel, newspaper, dry marble floor, wet marble floor.

D. wet marble floor, dry marble floor, towel, newspaper.

Answer:



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23. In which direction the force of friction acts?



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24. It is difficult to move a cycle along a road with its brakes on. Why?



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25. Why does a body stop after rolling down for some time ?



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26. What is friction?



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27. Why are tyres made circular?



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28. Friction is a self- adjusting force. Is it correct?



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29. Which is more smooth: wet muddy or cemented floor?



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30. What is a spring balance?



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31. Why a horse has to apply more force to start a tonga than to keep it moving?



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32. Give some examples of force of friction.



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33. Friction produces heat. How ?



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34. What is friction?



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35. What is force of limiting friction and sliding friction?





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