

FRICTION

Q1: Define friction

Answer:

Friction is the "evil" of all motion.

Q2: Vehicles get slow down when brakes are applied, why?

Answer: due to friction

Q3: Friction opposes the \_\_\_\_\_\_\_\_ between the two surfaces in contact.

Answer: relative motion

Q4: Friction produces

Light

alpha rays

Heat

All of the above

Answer: heat

Q5: force of friction always opposes the \_\_\_\_\_\_\_\_\_ force.

Answer: Applied motion

Q6: Is friction same for all the surfaces?

Answer: no

Q7: In which case Force of friction is greater

1) in case of rough surface or

2) smooth surface?

Answer: in case of rough Surface

Q8. If we apply oil in door hinges, then the friction will\_\_\_\_\_\_\_\_\_\_?

Answer: decrease

Q9. A toy car released with the same initial speed will travel fastest on,

1) muddy surface

2) polished floor

3) cemented surface

4) brick surface

Answer: b

Q10. How can we increase friction?

Answer: by making surface rough.

Q11. When friction is important?

Answer: striking of matchstick, fixing of nail in the wall etc.

Q12. What is the use of ball bearings?

Answer: they are used for reducing friction.

Q13: Name the device which is used for measuring for weight of an object.

Answer: Spring balance.

Q14. \_\_\_\_\_\_\_\_\_\_\_\_\_ is used to increase friction in brake system of automobiles

Answer: Brake pads.

Q15: Why kabbadi players rub their hands with soil before they start playing?

Answer: For a better grip of their opponent.

Q16: Powder is sprinkled on carom board to reduce \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Answer: to reduce friction

Q17: What are lubricants?

Answer: used to reduce friction.

Q18: Rolling increases friction. Yes/No

Answer: no

Q19: Why sliding is replaced by rolling in many machines?

Answer: Because rolling friction is smaller than sliding friction.

Q20: What do we call gases and liquid commonly\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Answer: Fluids

Q21: What is drag.

Answer: The frictional forces which are exertedfluids are called drag.

Q22: Water and other liquids exert\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ when objects move through them.

Answer: Force of friction

Q23: Sliding friction is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than the static friction.

Answer: Smaller

Q24: Arrange forces due to rolling, static and sliding frictions in a decreasing order.

Answer: static, sliding, rolling.

Q25: Name the forces which are responsible to fall down a boy when he steps on a banana peel.

Answer: Force of friction

Q26: Friction depends upon \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the surface.

Answer: Nature