

CHAPTER-12 'FRICTION'

MULTIPLE CHOICE QUESTIONS

- 1) Friction is a
 - a) Non-contact force
 - b) contact force
 - c) magnetic force
 - d) electrostatic force

- 2) Which of the following produces least friction
 - a) sliding friction
 - b) rolling friction
 - c) static friction
 - d) none of these

- 3) Friction always
 - a) Opposes the motion
 - b) helps the motion
 - c) both a and b
 - d) None of these

- 4) Friction can be reduced by using
 - a) oil
 - b) grease
 - c) power
 - d) all of these

- 5) Static friction is less than
 - a) sliding friction
 - b) rolling friction
 - c) both a and b
 - d) none of these

- 6) Whenever the surface in contact tend to move or move with respect to each other, the force of friction comes into play
 - a) only the object are solid

- b) only if one of the two objects is liquid
- c) only if one of the two objects is gaseous
- d) irrespective of whether the objects are solid, liquid or gas

7) The shape of an aeroplane is like a

- a) dog
- b) bird
- c) car
- d) bus

8) To sharpen the blade of a knife by rubbing it against a surface, which of the following will be most suitable?

- a) stone
- b) plastic block
- c) wooden block
- d) glass block

9) Friction is

- a) foe
- b) friend
- c) both a and b
- d) none of these

10) Friction due to fluid is called

- a) force
- b) pressure
- c) friction
- d) drag

11) Which of the following is not a smooth surface

- a) surface of a wet soap
- b) surface of tyres
- c) glazed tiles
- d) surface of mirror

12) A toy car released with the same initial speed will travel fastest on

- a) muddy surface
- b) polished marble surface
- c) cemented surface
- d) brick surface

13) If we apply oil on door hinges, the friction will

- a) increase
- b) decrease
- c) disappear altogether
- d) will remain unchanged

14) Lubricant

- a) reduce friction
- b) increase friction
- c) both a and b
- d) none of these

15) Force of friction depends on

- a) roughness of surface
- b) smoothness of surface
- c) inclination of surface
- d) all of these

16) Force of friction depends upon

- a) roughness of surface
- b) weight
- c) size
- d) all of these

17) Fluids are

- a) liquids
- b) gases
- c) both a and b
- d) none of these

18) Which is a streamlined body

- a) boat
- b) aeroplane
- c) ship
- d) all of these

19) Smooth surface has

- a) less friction
- b) more friction
- c) sometimes less and sometimes more
- d) all of these

20) Which of the following is responsible for wearing out of bicycle tyres?

- a) muscular force
- b) magnetic force
- c) frictional force
- d) drag