

## Chapter-2

### Worksheet-1

#### Section 1

- Q1. Define Friction.
- Q2. In which direction does force of friction acts? Why?
- Q3. What do you mean by 'Molecular adhesion'? Explain in brief.
- Q4. Does Fluid possess friction? Explain in detail.
- Q5. How surface roughness affects friction? Explain.
- Q6. What is a spring balance? How does it work and why it is used?
- Q7. Discuss Factors affecting frictional force.
- Q8. Differentiate between Static and Sliding friction.
- Q9. What is rolling friction? Give examples.
- Q10. What are advantages of friction?

#### Section 2

- Q11. Friction is a
- a) Contact Force
  - b) Non-Contact force
  - c) Magnetic force
  - d) Electrostatic force
- Q12. Which of the following produces least friction?

- a) Sliding Friction
- b) Rolling Friction
- c) Composite Friction
- d) Static Friction

Q13. Friction can be reduced by using

- a) Oil
- b) Grease
- c) Powder
- d) All of these

Q14. Whenever the surfaces in contact tend to move or move with respect to each other, the force of friction comes into play

- a) Only if objects are solid
- b) Only if one of the 2 object is liquid
- c) Only if one of the two objects I gaseous
- d) Irrespective of whether the objects are solid liquid or gaseous.

Q15. A boat comes to rest if we stop rowing it due to:

- a) Gravitational Force
- b) Force of friction
- c) Muscular force
- d) None of these

Q16. Friction due to fluids is called

- a) Force
- b) Pressure
- c) Thrust
- d) Drag

Q17. Which of the following is not a smooth surface?

- a) Surface of wet soap
- b) Surface of tyres
- c) Glazed tiles
- d) Surface of mirror

Q18. A toy car released with the same initial speed will travel farthest on

- a) Muddy surface
- b) Polished marble surface
- c) Cemented surface
- d) Brick surface

Q19. Force of friction depends on

- a) Roughness of surface

- b) Smoothness of surface
- c) Inclination of surface
- d) All of these

Q20. It is difficult to walk on an oily floor because

- a) Floor gets spoiled
- b) There is more resistance
- c) Force of friction is high
- d) Force of friction is very less

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