

Chapter-2

Worksheet-2

Section 1

- Q1. Why are wheels of vehicles made circular? Explain in brief.
- Q2. What is drag? Give example in real life.
- Q3. Why are the worn out tyres discarded?
- Q4. How does the friction depend on the nature of the surface?
- Q5. Why is it easier to move the box already in motion than to get it started?
- Q6. How brake stop moving bicycles and automobiles?
- Q7. In some cases, we deliberately increase friction. Explain why?
- Q8. What are the various types of friction? Explain.
- Q9. What are the causes of friction? Explain in detail.
- Q10. Write advantages and disadvantages of friction.

Section 2

Q11. Spring balance is a device used for measuring the _____ acting on an object.

- a) Mass
- b) Pressure
- c) Force
- d) Friction

Q12. A matchstick struck on a matchbox catches fire easily because

- a) Friction may cause fire
- b) Of the chemical equation
- c) Force heated the match stick
- d) None of the above

Q13. Four children were asked to arrange forces due to rolling, static and sliding frictions in an increasing order. Their arrangements are given below. Choose the correct arrangement.

- a) Rolling, Static, Sliding
- b) Static, Rolling, Sliding
- c) Rolling, Sliding, Static
- d) Sliding, Static, Rolling

Q14. The hinges of creaking doors are oiled to:

- a) Keep them clean
- b) Open and close them easily
- c) Reduce noise and wear tear
- d) None of these.

Q15. The easiest way to move a heavy wooden crate is to:

- a) place it on a trolley
- b) tie a rope one end and pull
- c) push it
- d) none of these

Q16. Gymnasts apply some coarse substance on their hands to:

- a) increase Friction for better grip

- b) decrease Friction
- c) play Fast
- d) none of these

Q17. Ball bearing:

- a) Reduces friction
- b) Increases friction
- c) Make no changes in friction
- d) None of these

Q18. The force of friction between two bodies is:

- a) parallel to the contact surface
- b) inclined at 30° to the contact surface
- c) perpendicular to the contact surface
- d) inclined at 60° to the contact surface

Q19. Carly throws four stones having the same weight on four different surfaces. The surfaces are icy, dry, sandy, and cemented. He throws each stone with the same force. On which of the given surfaces will the stone go the maximum distance before it stops?

- a) Icy
- b) Dry
- c) Sandy
- d) Cemented

Q20. In a cycling race, it is observed that a cyclist normally bends his body forward. The cyclist bends in order to

- a) Feel comfortable
- b) Reduce friction between bicycle and ground
- c) Reduce air drag
- d) Increase energy consumption.

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