

NMMS SCIENCE MODEL EXAM

8th Std – Unit 2: Force and Pressure – Part 2 (EM)

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1. The frictional force acting between the successive layers of the liquid which opposes the relative motion is called ____.

- A) Surface tension
- B) Thrust
- C) Viscous force (Viscosity)
- D) Buoyancy

Answer: C) Viscous force (Viscosity)

2. The unit of viscosity in the CGS system is ____.

- A) Nsm^{-2}
- B) Poise
- C) $\text{kgm}^{-1}\text{s}^{-1}$
- D) Pascal

Answer: B) Poise

3. The unit of viscosity in the SI system is ____.

- A) $\text{kgm}^{-1}\text{s}^{-1}$ or Nsm^{-2}
- B) Nm^{-2}
- C) Poise
- D) Joule

Answer: A) $\text{kgm}^{-1}\text{s}^{-1}$ or Nsm^{-2}

4. The force which opposes the relative motion of a moving body is ____.

- A) Gravitational force
- B) Magnetic force
- C) Friction
- D) Electrostatic force

Answer: C) Friction

5. Friction is produced due to the ____ of the surface of the bodies in contact.

- A) Smoothness
- B) Geometrical dissimilarities (Irregularities)
- C) Color
- D) Temperature

Answer: B) Geometrical dissimilarities (Irregularities)

6. Which of the following is NOT an effect of friction?

- A) Produces light
- B) Opposes motion
- C) Causes wear and tear
- D) Produces heat

Answer: A) Produces light

7. Friction experienced by bodies which are at rest is called ____.

- A) Kinetic friction
- B) Static friction
- C) Rolling friction
- D) Sliding friction

Answer: B) Static friction

8. Kinetic friction can be further classified into ____.

- A) Static and dynamic friction
- B) Rolling and static friction
- C) Sliding and rolling friction
- D) Fluid and solid friction

Answer: C) Sliding and rolling friction

9. Which of the following statements is correct?

- A) Rolling friction is greater than sliding friction
- B) Rolling friction is equal to sliding friction
- C) Rolling friction is less than sliding friction
- D) Rolling friction does not exist

Answer: C) Rolling friction is less than sliding friction

10. Wheels are provided in vehicles, trolleys, and suitcases because ____.

- A) It makes them look good
- B) Rolling friction is less than sliding friction
- C) It increases static friction
- D) It decreases the weight

Answer: B) Rolling friction is less than sliding friction

11. Which of the following factors affects friction?

- A) Nature of surface
- B) Weight of the body
- C) Area of contact
- D) All the above

Answer: D) All the above

12. For a given weight, if the area of contact is greater, then the friction will be

-----.

- A) Zero
- B) Lesser
- C) Greater
- D) Equal

Answer: C) Greater

13. Why is friction called a 'necessary evil'?

- A) It only has disadvantages
- B) It only has advantages
- C) It makes our life easy but also has negative effects
- D) It creates evil forces

Answer: C) It makes our life easy but also has negative effects

14. Which of the following is an advantage of friction?

- A) Writing on paper with a pen
- B) Walking on the road safely
- C) Lighting a matchstick
- D) All the above

Answer: D) All the above

15. Which of the following is a disadvantage of friction?

- A) It wears out soles of shoes
- B) Wastage of energy to overcome it
- C) Produces heat that causes physical damage to machines
- D) All the above

Answer: D) All the above

16. Brake shoes in a cycle have to be adjusted to be as close as possible to the rim of the wheel in order to _____.

- A) Decrease friction
- B) Increase friction
- C) Make it look beautiful
- D) Reduce weight

Answer: B) Increase friction

17. A substance which reduces the frictional force is called a _____.

- A) Lubricant
- B) Catalyst
- C) Fuel
- D) Solvent

Answer: A) Lubricant

18. Which of the following is an example of a lubricant?

- A) Grease
- B) Coconut oil
- C) Graphite
- D) All the above

Answer: D) All the above

19. Why are ball bearings (lead shots) used in the bearing of a cycle hub?

- A) To replace sliding friction with rolling friction
- B) To increase sliding friction
- C) To increase the weight of the cycle
- D) To stop the cycle

Answer: A) To replace sliding friction with rolling friction

20. Complete the analogy: Knot in a thread : Static friction :: Ball bearing :

-----.

- A) Sliding friction
- B) Rolling friction
- C) Viscosity
- D) Fluid friction

Answer: B) Rolling friction

21. If we apply force against the direction of motion of a body, then the body will

-----.

- A) Stop moving
- B) Move with an increased speed
- C) Move with a decreased speed or stop
- D) Move in a different direction

Answer: C) Move with a decreased speed or stop

22. Pressure exerted by a liquid is increased by -----.

- A) The density of the liquid
- B) The height of the liquid column
- C) Both a and b
- D) None of the above

Answer: C) Both a and b

23. A body will sink in a liquid if the weight of the body is _____ the buoyant force.

- A) Equal to
- B) Less than
- C) Greater than
- D) Zero compared to

Answer: C) Greater than

24. Liquid pressure _____ with the decrease of depth.

- A) Increases
- B) Decreases
- C) Remains same
- D) Becomes zero

Answer: B) Decreases

25. Complete the analogy: Downward force : Weight :: Upward force offered by liquid : _____.

- A) Viscosity
- B) Pressure
- C) Friction
- D) Buoyant force

Answer: D) Buoyant force



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