

Subject:- Science

Class- VIII

Chapter-12 & 13

FRICION & SOUND

Multiple Choice Questions

Choose the Correct Options:-

1. Friction is a _____
 - a. Contact force
 - b. Non-contact force
 - c. Magnetic force
 - d. None of these
2. What kind of substances are known as lubricants
 - a. Increase friction
 - b. Decrease friction
 - c. Increase or decrease friction
 - d. None of these
3. Fluid are _____
 - a. Gases
 - b. Liquids
 - c. Gases and liquids both
 - d. None of these
4. On what force of friction depends?
 - a. Smoothness of surface
 - b. Roughness of surface
 - c. Inclination of surface
 - d. All of above
5. Friction is a /an _____
 - a. Evil
 - b. Foe
 - c. Both (a) and (b)
 - d. None

6. Lubricants _____

- a. Increase friction
- b. Reduce friction
- c. Both (a) and (b)
- d. None

7. Rolling friction is smaller than?

- a. Sliding friction
- b. Static friction
- c. Fluid friction
- d. All of the above

8. The shape of the airplane is like a

- a. Bird
- b. Car
- c. Dog
- d. All

9. Which of the following statements is incorrect?

- (a) Friction acts on a ball rolling along the ground.
- (b) Friction acts on a boat moving on water.
- (c) Friction acts on a bicycle moving on a smooth road.
- (d) Friction does not act on a ball moving through air.

10. If we apply oil on door hinges, the friction will

- (a) increases
- (b) decreases
- (c) disappear altogether
- (d) will remain unchanged

11. 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

12. Least amount of friction is required in which of the following sports?

- a. Car Race
- b. Football
- c. Ice Skating
- d. Tug of war

13. Which of the following surfaces will offer the least friction?

- a. Vinyl floor
- b. Plywood
- c. Plastic
- d. Ice

14. Increasing friction is necessary for which of the following?

- a. Free wheel of bicycle
- b. Bicycle handle bar
- c. Chain of bicycle
- d. Ball bearing in front wheel

15. Which of the following is used in powdered form as lubricant?

- a. Graphite
- b. Chalk
- c. Salt
- d. Sugar

16. Mobil oil is used in scooters and bikes for which purpose?

- a. As fuel
- b. For reducing friction
- c. For increasing friction
- d. None of the above

17. Which of the following uses spikes in shoes?

- a. Lawyer
- b. Doctor
- c. Rugby player
- d. Painter

18. Eardrum is a part of-----

- a. Sound producing organ
- b. Skeletal system
- c. Hearing organ
- d. Reproductive organ

19. The hearing range of human ear is

- a. 20 Hz to 20,000 Hz
- b. Less than 20 Hz
- c. More than 20,000 Hz
- d. 20 Hz to 25,000 Hz

20. The voice box is called:

- a. Stomach
- b. Heart
- c. Larynx
- d. Mouth

21. Large amplitude of sound vibrations will produce:

- a. Loud sound
- b. Meak sound
- c. Slow sound
- d. Shreak

22. The pitch of sound depends on

- a. frequency
- b. amplitude
- c. both of these
- d. none of these

23. Sound is kind of

- a. Work
- b. Energy

- c. Force
- d. None

24. To an fro motion of an object is called

- a. Waves
- b. Amplitude
- c. Vibration
- d. All of the above

25. Voice box or larynx of human process

- a. Sound
- b. Wind
- c. Loudness
- d. None

26. Sound propagates maximum in

- a. Gas
- b. Liquid
- c. Solid
- d. All

27. Noise pollution is harmful for

- a. Human
- b. Cat
- c. Bird
- d. All

28. Sound usually travels through which medium to reach our ears?

- a. Air
- b. Water
- c. Wood
- d. Asbestos

29. What is the speed of sound in air?

- a. 110 m/s
- b. 220 m/s

- c. 330 m/s
- d. 440 m/s

30. What is the length of vocal cords in men?

- a. 5 mm
- b. 10 mm
- c. 15 mm
- d. 20 mm

31. What is the length of vocal cords in women?

- a. 5 mm
- b. 10 mm
- c. 15 mm
- d. 20 mm

32. A vibrating body should oscillate minimum how many times per second to make an audible sound for humans?

- a. 10 times
- b. 20 times
- c. 30 times
- d. 40 times

33. Which of the following produces noise only?

- a. Jet engine
- b. Harmonium
- c. Flute
- d. Guitar

34. What is loudness of normal breathing?

- a. 10db
- b. 20db
- c. 30db

d. 40db

35. Sound waves do not travel through

- (a) solids
- (b) gases
- (c) liquids
- (d) vacuum

36. Which of the following is not a characteristic of a musical sound?

- (a) Pitch
- (b) Quality
- (c) Wavelength
- (d) Loudness

37. Which one of the following can hear an infrasonic sound?

- (a) Dog
- (b) Rhinoceros
- (c) Bat
- (d) Humans

38. In a 'dholak' sound is produced due to:

- (a) stretched membrane
- (b) air column
- (c) stretched strings
- (d) the vibration of air

39. The pitch of sound depends on the of the vibrating body

- (a) amplitude
- (b) frequency
- (c) noise
- (d) the medium of propagation

40. SI unit of time period is

- (a) second
- (b) minute
- (c) hour
- (d) nanosecond

41. SI unit of pitch is:

- (a) Hertz
- (c) metre
- (c) m/sec
- (d) second

***** Best of Luck*****

Thanks

