

# WAVES & SOUND -7 MCQ

## DISCOVERING MCQ

### ► Multiple-Choice Test Taking Tips and Strategies

► **YOU ARE A BRILLIANT!**

► **ACCEPT THE CHALLENGE**

► **Before glancing over the answer options or focusing the given choice, first ask your brain what could be the answer**

► **When brains predict/confirm something, and then look at the multiple choices**

► **Now start writing whatever your brain says.**

**1. What are the EXAMPLES of periodic motion?**

- a.
- b.
- c.
- d.

**2. What are the EXAMPLES of vibratory motion?**

- a.
- b.
- c.
- d.

**3. Which one is not the EXAMPLE of Oscillatory motion?**

- a.
- b.
- c.
- d.

**4. Which one is not the EXAMPLE of Harmonic motion?**

- a.            b.
- c.            d.

**5. Which of the following is not a transverse wave?**

- a.            b.
- c.            d.

**6. Which of the following is a longitudinal wave?**

- a.
- b.
- c.
- d.

**7. Which one is necessary for the propagation of mechanical wave?**

- a.            b.
- c.            d.

**8. Which one is transferred by wave?**

- a.            b.

c. d.

a. b.

c. d.

9. The velocity of wave depends on \_\_\_\_\_

a. b.

c. d.

10. The velocity of sound wave depends on ..... and .....of the medium.

a.

b.

c.

d.

11. The velocity of wave is maximum at \_\_\_\_\_medium

a. b.

c. d.

12. At 20°C the velocity of sound wave in air is

a. b.

c. d.

13. At -20°C the velocity of sound wave in air is

a. b.

c. d.

14. At 20°C the velocity of sound wave in water is

a. b.

c. d.

15. At 20°C the velocity of sound wave in iron is

a. b.

c. d.

16. At 20°C the velocity of sound wave in vacuum is

17. In which season the velocity of sound wave is maximum?

a. b.

c. d.

18. The velocity of sound is .....in humid air.

a. b.

c. d.

19. The range of audibility is ....

a. b.

c. d.

20. The range of ultrasonic vibration is ....

a. b.

c. d.

21. The range of infrasonic sound is ....

a. b.

c. d.

22. Which one of the following cannot hear ultrasonic sound?

a. b.

c. d.

23. Which one of the following can hear infrasonic sound?

a. b.

c. d.

24. During earthquakes and nuclear explosion what type of sound produce?

a. b.

c. d.

25. SONAR measures.....

a. b.



c. d.

26. The elaboration of SONAR is

- a.
- b.
- c.
- d.

27. Which of the following relation is correct for frequency.....

- a.
- b.
- c.
- d.

28. Which of the following relation is correct for velocity of wave.....

- a.
- b.
- c.
- d.

29. Which of the following relation is correct for determining the depth of well.....

- a.
- b.
- c.
- d.

30. Pitch depends on

- a. b.
- c. d.

31. The voice of man is ..... and the voice of children is .....

- a. b.
- c. d.

32. The voice of woman is ..... and the voice of children is .....

a. b.

c. d.

33. Which sound can clear the dirt of clothes?

- a. b.
- c. d.

34. Harmful germs can be killed by .....

- a. b.
- c. d.

35. Which of the following is not the use of ultrasonic sound?

- a.
- b.

36. The unit of LOUDNESS IS

- a. b.
- c. d.

37. The unit of Pitch is

- a. b.
- c. d.

38. The upper limit of audible frequency of Bat is ...

- a. b.
- c. d.

39. The upper limit of audible frequency of Dog is ...

- a. b.
- c. d.

40. The minimum distance of hearing echo at  $0^{\circ}\text{C}$  is

- a. b.
- c. d.

41. The minimum distance of hearing echo at  $50^{\circ}\text{C}$  is

- a. b.
- c. d.

42. The minimum distance of hearing echo at  $10^{\circ}\text{C}$  is

- a. b.





- A. 43.75
- B. 42.50
- C. 41.50
- D. 41.25

55. If the frequency of a sound in a particular medium is increased then which one of the following is decrease?

- a) Velocity of the wave
- b) Amplitude
- c) Time period
- d) Phase

56. The velocity of sound is the least in which of the following medium?

- a) Liquid      b) Solid
- c) Gaseous    d) Vacuum

57. What is the increase in the velocity of sound for raising of 1°C temperature of air?

- a) 33.2ms<sup>-1</sup>    b) 16.6ms<sup>-1</sup>
- c) 6ms<sup>-1</sup>        d) 0.6ms<sup>-1</sup>

58. Velocity of sound in air depends on-

- i. Moisture
- ii. Temperature
- iii. Pressure

Which one is correct?

- a) I & ii    b) i & iii    c) ii & iii    d) I, ii & iii

59. If time period is t and velocity of sound is v, then to measure the depth of a sea-

Sound travels the total distance, d

$$d = vxt/2$$

Sound covers total distance 2d  
Which one of the following is correct?

- I & ii
- ii and iii
- i and iii
- i, ii and iii

60. Periodic motion is a \_\_\_\_\_

- Motion of simple pendulum
- Motion in a piston in a petrol engine
- Motion of vibrating fork

Which one is correct?

- i and ii
- i and iii
- ii and iii
- i, ii and iii

61. Which is the longitudinal of wave?

- Water wave
- Sound wave
- Light wave
- Radio wave

62. How many times of the velocity of sound in iron are in comparison of that of water at 20° C?

- 3.54
- 4.54
- 5.54
- 6.54

**It's important to select the best answer to the question being asked, not just an answer that seems correct. Often many answers will seem correct, but there is typically a best answer to the question that your professor is looking for.**

**Read every answer option.**

**Answer the questions you know first.**

**If you're having difficulty answering a question, move on and come back to tackle it once you've answered all the questions you know. Sometimes answering easier questions first can offer your insight into answering more challenging questions.**

**Make an educated guess.**

**Pay particularly close attention to the words not, sometimes, always, and never. An answer that includes always must be irrefutable. If you can find a single counterexample, then the answer is not correct. The same holds true for the word never. If an answer option includes never a single counterexample will indicate the answer is not the correct.**