## 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.	5. Which of the following is not a transverse wave?			
С.	a. b.			
d.	c. d.			
2. What are the EXAMPLES of vibratory				
motion?	6. Which of the following is a longitudinal			
a.	wave?			
b.	2			
с.	b			
d.	0.			
3. Which one is not the EXAMPLE of	с.			
Oscillatory motion?	d.			
a.	7. Which one is necessary for the			
b.	propagation of mechanical wave?			
с.				
d.	a. b.			
4. Which one is not the EXAMPLE of	c. d.			
Harmonic motion?	8. Which one is transferred by wave?			
a. b.	a. b.			
c. d.				

				REARRANGED C CUCHER	
с.	d.	a.	b.	Restrict Contract	
		с.	d.	Mob: +974 55258711 / 55249797 E-mail:rashed.saba@gmail.com	
9. The vel	ocity of wave depends on				
a.	b.	17. In which season the velocity of sound			
с.	d.	wave is maximum?			
		а.	b.		
10. The velocity of sound wave depends on		с.	d.		
	andof the				
medium.		18. <b>The ve</b>	18. The velocity of sound isin		
a.		humid air.			
b.					
c.		а.	b.		
d.		с.	d.		
11. The velocity of wave is maximum at		19. The range of audibility is			
mediu	ım				
a.	b.	a.	b.		
с.	d.	с.	d.		
		20. <b>The ra</b>	nge of ultrasonic	vibration is	
12. At 20°	C the velocity of sound wave in air				
is		a.	b.		
a.	b.	с.	d.		
с.	d.	21. The range of infrasonic sound is			
13. At -20°	C the velocity of sound wave in	a.	b.		
air is		с.	d.		
a.	b.	22. Which one of the following cannot hear			
c.	d.	ultrasonic sound?			
		a.	b.		
14. At 20°	$\mathbb C$ the velocity of sound wave in	с.	d.		
water is		23. Which one of the following can hear			
a.	b.	infrasonic sound?			
c. d.	d.	a.	b.		
		с.	d.		
15. At 20°C the velocity of sound wave in		24. During earthquakes and nuclear			
iron is		explosion what type of sound produce?			
a.	b.	a.	b.		
с.	d.	с.	d.		
		25. SONA	R measures	•••••	
16. At 20°	${\mathbb C}$ the velocity of sound wave in				
vacuum is		a.	b.		

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0	d		h		
0. 26 <b>Th</b> o	u. Alaboration of SONAP is	<b>a.</b>	<b>D.</b>	Mob: +974 55258711/55249797	
20. The o	elaboration of SONAR IS	C. U. Email: Construction			
a. b		55. Which sound can clear the dirt of			
0.		ciotiles:	h		
c. d		a.	U. d		
u.		C. U. 24 Houseful common com ho billed ha			
27 Whie	h of the following relation is correct	<b>54.</b> Hai iiii	ui gei ills call de ki	incu by	
for frequ	ienev	а а	• b		
a	iency	c.	d.		
u. b		35. Which of the following is not the use of			
с.		ultrosonic sound?			
d		a	Sound .		
		b.			
28. Whic	h of the following relation is correct	36. The unit of LOUDNESS IS			
for velocity of wave	a.	b.			
	•	с.	d.		
a.					
b.		37. The uni	t of Pitch is		
c.		a.	b.		
d.		с.	d.		
29. Which of the following relation is correct		38. The upper limit of audible frequency of Bat			
for determining the depth of well		is			
		a.	b.		
a.		с.	d.		
b.		39. The upper limit of audible frequency of Dog			
c.		is			
d.		a.	b.		
		с.	d.		
		40. The minimum distance of hearing echo at			
30. <b>Pitch</b>	depends on	0°C is			
a.	b.	a.	b.		
c.	d.	с.	d.		
31. The voice of man is and the		41. The minimum distance of hearing echo at			
voice of	children is	50°C is			
a.	b.	a.	b.		
c.	d.	с.	d.		
		42. The minimum distance of hearing echo at -			
32. The voice of woman is and		10°C is			
the voice of children is		a.	b.		

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c. d.
43. The time required to hear an echo when the reflector is at a distance of 25m at 10°C is
a. b.

d.

c.

44. What is the velocity of sound when frequency becomes ...double..... a. b. c. d. 45. What is the velocity of sound when time period becomes .....halved..... a. b. c. d. 46. What is the frequency of sound when time period becomes .....halved..... a. b. c. d. 47. What is the phase difference between crest and trough? b. a. d. c. 48. What is the phase difference between two consecutive crests? b. a. d. c. 49. What is the phase difference between two consecutive troughs? b. a. d. c. **NOW TRY THE FOLLOWINGS:** 

50. A sound of echo is heard after 0.12 sec. What is the distance between the source and the



42 m 39.84 m 21 m 19.9 m

51. If the vibration of the source is greater than 20,000 times per second, what is the nature of the sound?

Infrasonic Audible Ultrasonic Musical sound



Which is the complete vibration in the figure?

- A. from C to G
- B. from B to C
- C. from B to D
- D. from A to B
- 53. Which is the longitudinal wave below?
- A. Light wave
- B. Radio wave
- C. Sound wave
- D. Water wave

54. If in 30°C temperature and 0.25s time any echo is heard, how much m (meter) will be the distance between source and reflector?

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-1 b) 16.6ms-1 d) 0.6ms-1 c) 6ms-1 58. Velocity of sound in air depends oni. 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 2 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 the 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 answer easier question 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.