

Q4) Pressure applied at any point of a liquid enclosed in a container, is transmitted without loss to all other

d) Obtuse

Q5) pressure on the fluid depend on

a) depth below the surface

b) density of fluidc) the value of gd) all of above

parts of liquid is called

a) Newton's Law
 b) Archimedes Law
 c) Einstien Law
 d) Pascal's Law

Quiz 4.1

- Q1. The U-shaped manometer is used for measuring:
 - a. Blood pressures,
 - b. Liquid pressures
 - Ç. Gas pressures d. None of the above
- Q2. The pressure below a column of liquid does not depend on:
 - a. The acceleration of gravity.
 - b. The density of the liquid.
 - c. The height of the liquid d. The area of the liquid surface
- Q3. Considering that the shown water container is opened to the air and full of water of height 15cm, the pressure at the bottom is equal to (in Pascal) [Pam=100 KPa, pm=1000 kgm⁻¹]



(a. 1.015 × 10⁵

c. 1.015 × 10³

- d. 10.15 × 10⁵
- Q4. The pressure applied to an enclosed fluid in a container is transmitted undiminished to every part of the fluid as well as the walls of the container. This principle is called:
 - Pascal's principle.
 - Pressure's principle.
 - Enclosed Fluid's principle. C.
 - Container's principle. d.
- Q5. The force per unit area can be measured in:
 - A Pascals
 - b. Newtons.
 - Newtons per meters.
 - Both a and c d.

- E. Light wave
- F. Water wave
- G. Sound wave
- H. All of above

XIZ Q2) Find the second harmonic for an open pipe. If the length of the pipe is 60 cm, the frequency inside the pipe is. Value of c= 344 m/s.

- 1. 600 Hz
- J. 780Hz

K. 573.33Hz

980 Hz

Q3) Loudness depend upon

- E. Amplitude
- F. Intensity
- G. Pressure
- H. All of above

Q4) A siren emitting sound of frequency 800Hz is going away from a static listener with a speed of ? sound to be heard by the listener is (Take velocity of sound as 330m/s

- E. 733.3 Hz
- F. 600Hz
- G. 798.3 Hz
- H. 856.3 Hz

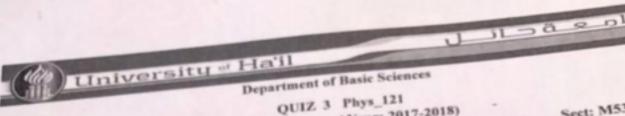
Q5) If fundamental frequency is 50 and next successive frequencies are 150 and 250, then it is

- A. Pipe closed at both ends
- d. A pipe closed at one end
- C An anna nina
- D. A stretched string

- If the person rise hand center of gravity is?
- 1) up
- 2)down
- 3) at center

- Oil float over water due to?
- 1) Density
- 2) cohesive
- 3) surface tension

@ efsort & sulcrum Oiload Onload Onload Onload Aclass I lever has --- in the middle



Q1) What are the uses of ultrasound:

- A. Diagnose kidney
- B. Diagnose heart
- C. Diagnose lever
- D. All of above
- Q2) Speed of ultrasound depends upon
 - A. medium
 - B. amplitude
 - C. Wavelength
 - D. None of above

3) A sound wave which has frequency higher than upper limit of human hearing is

- A. infra sonic
- B. ultrasound
- C. supersonic
- D. megasonic

What is ultrasound?

- A. A sound with a frequency we can hear
- B. A sound with a higher frequency then we can hear
- C. A sound with a lower frequency then we can hear
- D. None of above

780 Hz Find the length of the pipe.

(Second Semester/ Year: 2017-2018)

ID-numbers:

Sect: 5653

Q1) What is ultrasound?

В

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Student-namel.

- Q2) With a high pitched sound, you hear a high sound because of
 - A. High frequency
 - B. High amplitude
 - C. High intensity
 - D. None of above
 - Q3) Loudness depend upon
 - A. Amplitude
 - B. Intensity
 - C. Pressure
 - D. All of above

n

Q4) How does the pitch of the sound wave received by a person standing on the side of the road change as a car honking its horn approaches him?

- A. It decreases gradually
- B. It increases gradually
- C. It does not change
- D. It decreases to zero
- Q5) If fundamental frequency is 100 and next successive frequencies are 200 and 300, then it is
- A. pipe closed at both ends
- B. A pipe closed at one end
- C. An open pipe
- D. A stretched string

C



Department of Basic Sciences QUIZ 3 Phys_121 (First Semester/ Year: 2017-2018)

(First Senter): Sect: M55

1)Sound wave will have highest speed in

Solid>liquid>fluid>gas. Metal >H2O >blood>air

Metal

- B. Air
- C. Water
- D. Space

2) Sound waves are mechanical in nature because

- They require medium for propagation
- B. They don't require medium for propagation
- C. They are electromagnetic
- D. They are transverse

3) In a stationary wave, nodes are at

- A. fixed points
 - B. movable points
 - C. there are no nodes
 - D. random points

4) If particles of medium vibrate at right angles to direction of velocity then wave is

- A. longitudinal
- ... transverse
 - C. abrupt
 - D. sound

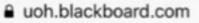
5) Sound waves have

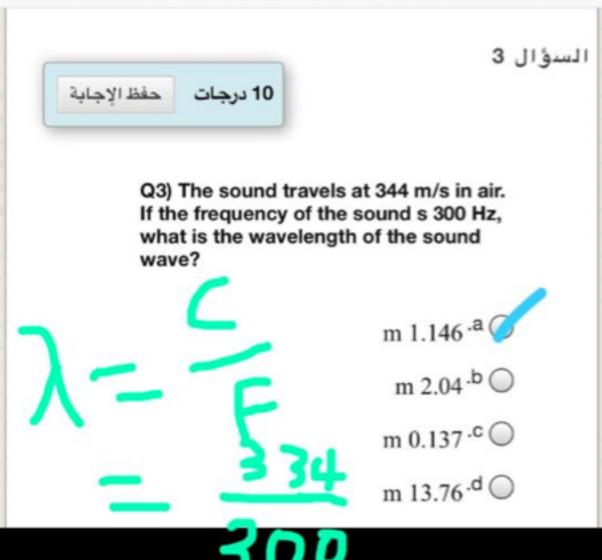
- A. Amplitude only
- B. Frequency and wavelength only
- Amplitude, frequency and wavelength
- D. Amplitude and wavelength only

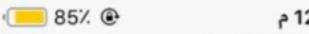
3. A pipe closed at one end

C. An open pipe

D. A stretched string







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10 درجات حفظ الإجابة

السؤال 4

What is the pressure difference between the brain and foot of 1 m child, if the density of blood is 1059.5 kg m⁻³.

1.04x10⁴ Pa .a

.b () 10³ Pa .a

108 Pa .a

9.3x10⁻³ Pa .a

انقر فوق "حفظ وإرسال" للحفظ والإرسال. وانقر فوق "حفظ كل الإجابات" لحفظ كل الإجابات.

حفظ وإرسال

حفظ كافة الإجابات

السؤال 2

10 درجات حفظ الإجابة

A string 180 cm long resonates in three segments to transverse waves sent down it by a 270 Hz vibrator. What is the speed of ?the waves on the string

486 m/s .A.C. 225m/s .A. 32400m/s .A.

m الطول نحوله الى 180/100=1.8m F=270Hz .D () 368 m/s .A

السؤال 3

10 درجات حفظ الإجابة

انقر فوق "حفظ وإرسال" للحفظ والإرسال. وانقر فوق "حفظ كل الإجابات" لحفظ كل الإجابات.

حفظ كافة الإجابات

حفظ وإرسال

IN STC 4G @ 4 9% [2:27 PM uoh.blackboard.com Sound is carried to our ears by OA vibrations ⊕ B. pressure C. temperature effect O D. humidity effect QUESTION 2 All waves can be classified into two categories which are 1. Longitudinal waves and electromagnetic waves OB. 1. Transverse waves and longitudinal waves OC. 1. Sound waves and electromagnetic waves OD. 1. Transverse waves and electromagnetic waves QUESTION 3 A string 180 cm long resonates in three segments to transverse waves sent down it by a 270 Hz vibrator. What is the speed of the waves on the string? A. 368 m/s O B. A. 486 m/s 0 C A. 225m/s A. 32400m/s QUESTION 4 When sound travels through air, the air particles _____. A vibrate along the direction of wave propagation B. vibrate but not in any fixed direction O C vibrate perpendicular to the direction of wave propagation O D. do not vibrate QUESTION 5 When the automobile moves away from the listener, its horn seems 04 A. low pitched A. high pitched (C) C.

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers.

Save All Answers.

OD.

A. no change

Quiz chapter 2

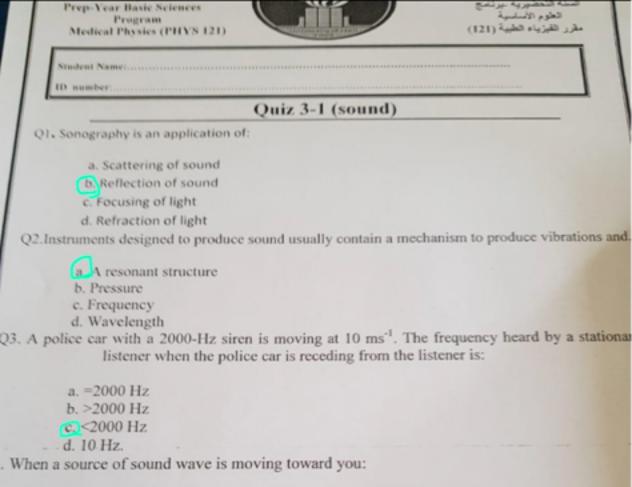
1- wave which travel in perpendicular direction to the
direction of the wave known as
a- transverse wave
b- longitudinal wave
c- sound wave
d- none of the above
2- the velocity of the wave is equal to the product of the
and the frequency
a- wavelength
b- force
c- amplitude
d- time period
3- the frequency of a wave is measured by
a- meters
b- <u>hertz</u>
c- seconds
d- decibels
4- the velocity of sounds maximum in
a- air
b- water
c- vacuum
d- metal
5- the theory of sonography is depended on
a- interference
b- transmittance
c- acoustic impedance
d- none of the above

Quiz chapter 2

Quiz empter 2	
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4- a sound wave is produced when an object	
a- accelerates	
b- decelerate	
c- vibrate	
d- remains stationary	
5- wave which travel in parallel direction to the direction of	
the wave known as	
a- transverse wave	
b- longitudinal wave	
c- sound wave	
d- none of the above	

Quiz chapter 2

Quiz chapter 2		
1- wave which travel in perpendicular direction to the		
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<u>b- hertz</u>		
c- seconds		
d- decibels		
4- sound is a good example of		
a- transverse wave		
b- longitudinal wave		
c- both transverse and longitudinal wave		
d- none of the above		
5- sound wave are mechanical in nature because		
a- they require medium for propagation		
b- they don't require medium for propagation		
c- they are longitudinal		
d- they are transverse		



a. You hear a lower frequency sound compared with that of the source.
b) You hear a higher frequency sound compared with that of the source.
c. You hear the sound with actual frequency produced by the source.

d. No sound can be heard in that case

The source of vibration in human is:

b. The hollow body
 c. The vocal cord

The lips

d. The air

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B. A pipe closed at one end
B. A pipe

C. An open pipe

D. A stretched string

QI) A body is said to be in static equilibrium when it is A) At rest. B) Accelerated by the external force. C) Moving with uniform velocity. D) Moving uniformly in a circular path. Q2) The largest torque happens in the case A) D B) A C) B	
D) C Q3) What happens to the torque if the moment arm is increased? A) The torque decreases with the length of the arm B) The torque increases with the length of the arm	a
O) Nothing happens since torque is independent of distance D) The torque will equal to zero Q4) A class I lever has the in the middle. A) Effort B) Fulcrum C) Load	
D) None of the above Q5) the greater the force, the larger will be the A) Centre of mass	

D) Axis of rotation