أسئلة اختبار تجريبي وفق الهيكل الوزاري منهج انسباير

تاريخ إضافة الملف على موقع المناهج: 2024-11-25 16:44:55

المزيد من مادة علوم:	ملفات ا كتب للمعلم ا كتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس

إعداد: Mohamed Marwa

التواصل الاجتماعي بحسب الصف الثامن

صفحة المناهج الإماراتية على فيسبوك					
المواد على تلغرام	التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات	

المزيد من الملفات بحسب الصف الثامن والمادة علوم في الفصل الأول

1	أسئلة الامتحان النهائي منهج انسباير القسم الورقي العام 2023-2024
2	حل أسئلة الامتحان النهائي القسم الالكتروني والورقي العام 2023-2024
3	نموذج اختبار تجريبي وفق الهيكل الوزاري القسم الكتابي
4	نموذج اختبار تجريبي وفق الهيكل الوزاري القسم الالكتروني
5	مراجعة دروس الامتحان وفق الهيكل الوزاري القسم الكتابي من برنامج تمكين

دولة الإمارات العربية المتحدة
وزارة التربية والتعليم
الفرع المدرسي الأول

مدرسة عبدالله بن ناصر - الحلقة الثانية بنين
Abdulla Bin Nasser Boys' School - Cycle 2

مؤسسة الإمارات للتعليم المدرسي
EMIRATES SCHOOLS ESTABLISHMENT

Grade

8 adv

امتحان تجريبي نهاية الفصل الدراسي الأول 2024\2025

Mock exam for End of Term 1 Exam 2024/2025

Science

Prepared by Ms. Marwa Mohamed

Student Number / رقم الطالب	
Student Name / اسم الطالب	
School / المدرسة	
Class / الصف	
Stream / المسار	
Subject / المادة	

الدرجة	**40**	**60**	**100**

Ms. Marwa Khawwas

Part 1 : free response questions

Question 1

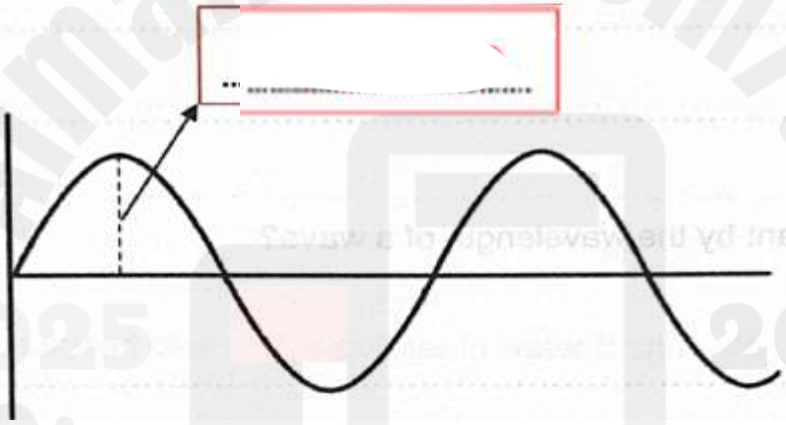
4 marks

a)

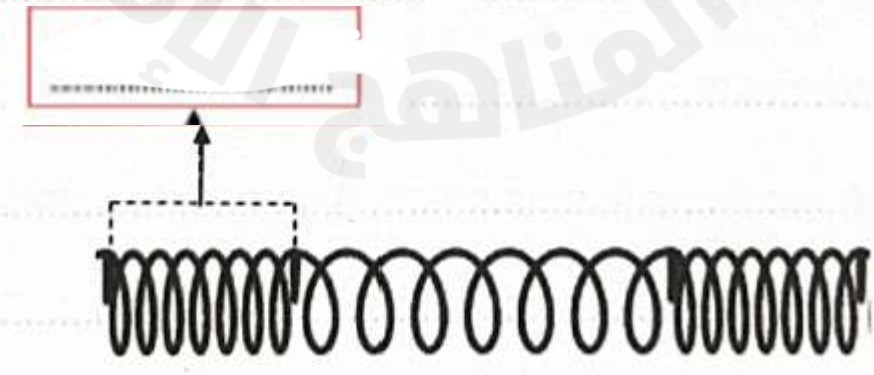
I. Identify the type of mechanical wave shown in each diagram below.

2. Label the wave property indicated in each diagram

Wave type : .....



Wave type .....



B- What is meant by the amplitude of of a wave ? 2 marks

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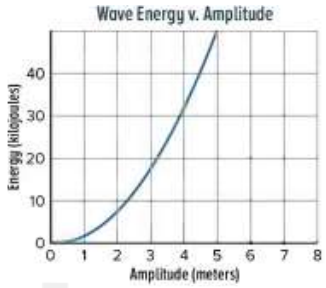
C- From the diagram explain the relationship between the amplitude and energy ?



2 marks

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D- What is the difference between electromagnetic waves and mechanical waves? 4 marks

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Give an example for electromagnetic wave

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Give an example for mechanical waves

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2 marks

E- Why the speed of sound is greater in hot water than cold water ?

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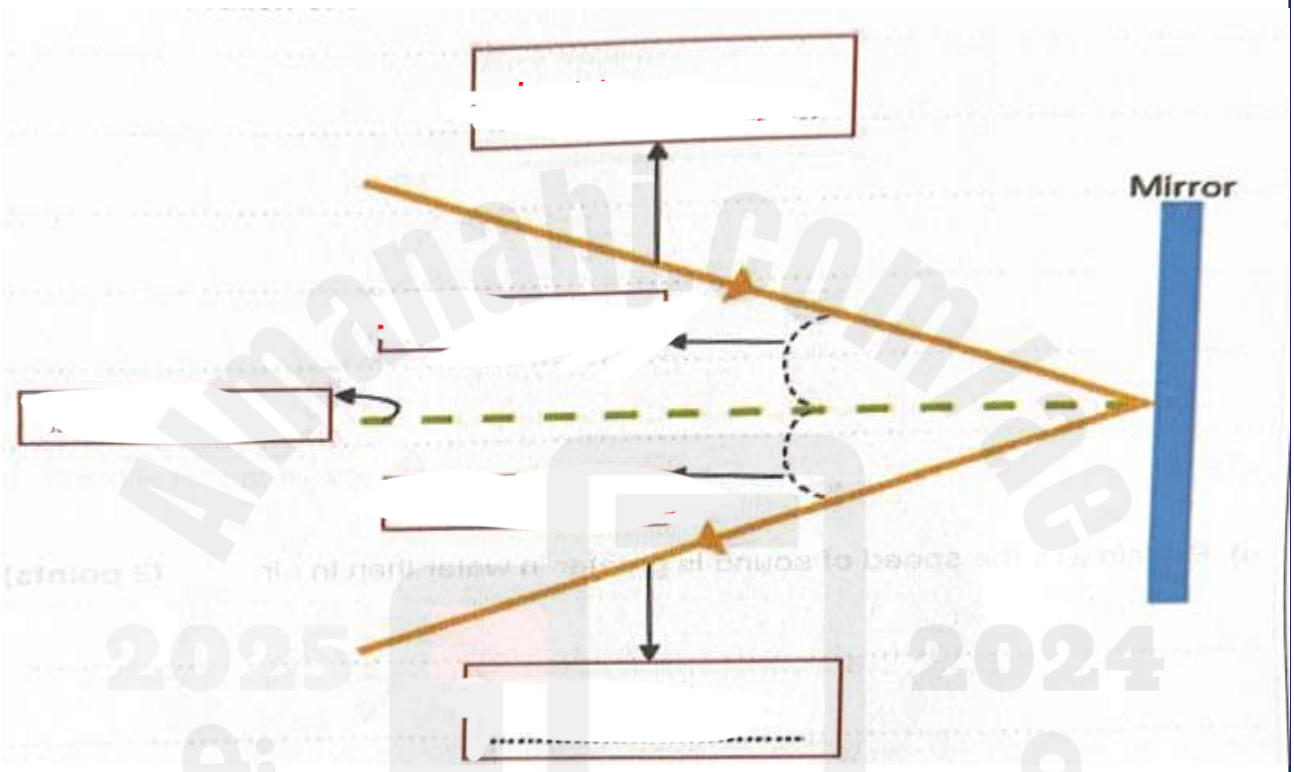
Ms. Marwa Khawwas

Question 2 :

a) The diagram below shows how light is reflected by a plane mirror. on the diagram below, label the following:
the two types of angles, the two types of rays and the location of the normal .

5 marks



b) The angle of reflection of allied ray reflected by about a plane mirror is 40° apply the law of reflection to find the angle of incidence 2 marks

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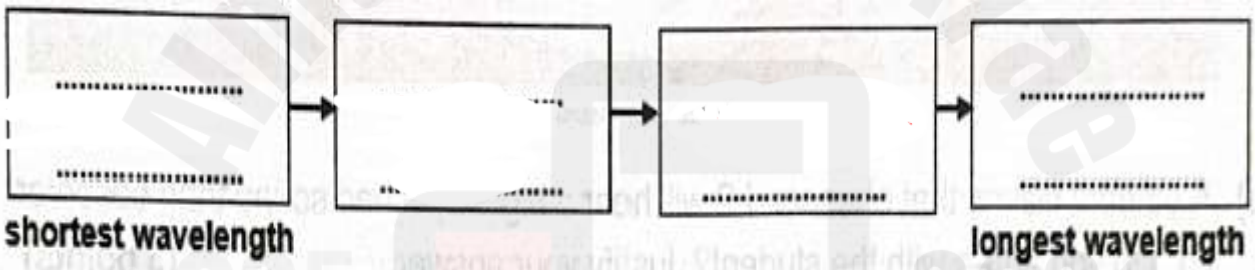
Question 3 :

The figure below shows the electromagnetic spectrum:

Radio, Visible light, X-ray and microwaves are parts of the electromagnetic spectrum

4 marks

A) list parts of the electromagnetic spectrum stated above for shortest to longest wavelength



b) Which of the 4 seated parts of the electromagnetic spectrum has the most energetic photons? Justify your answer

3 marks

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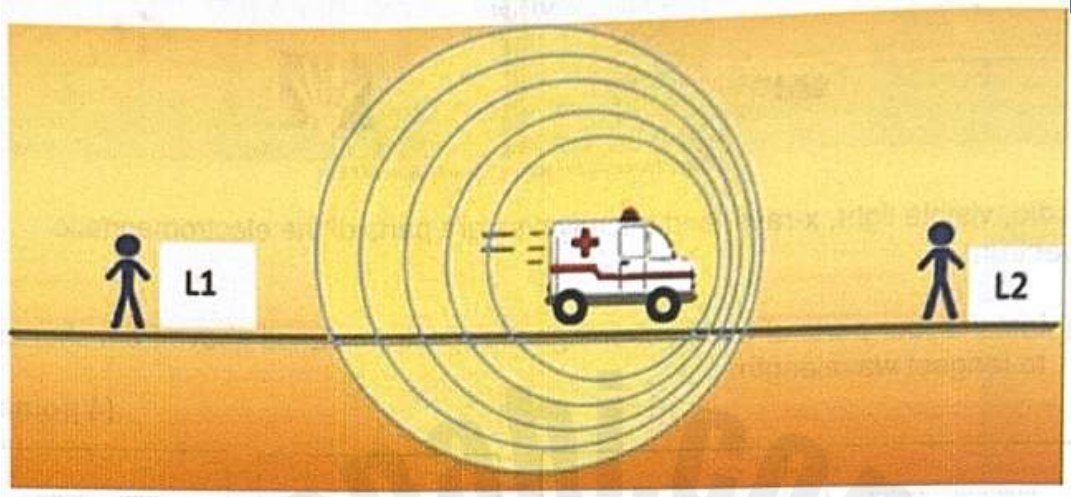
Question 4 :

An ambulance sounding its siren at constant frequency is moving as shown in the pictures below

3 marks



a) A student claims that observer L2 will hear a higher pitched sound than observer L1 . do you agree with the student? justify your answer

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2 marks

B- What is the difference between AM and FM radio waves

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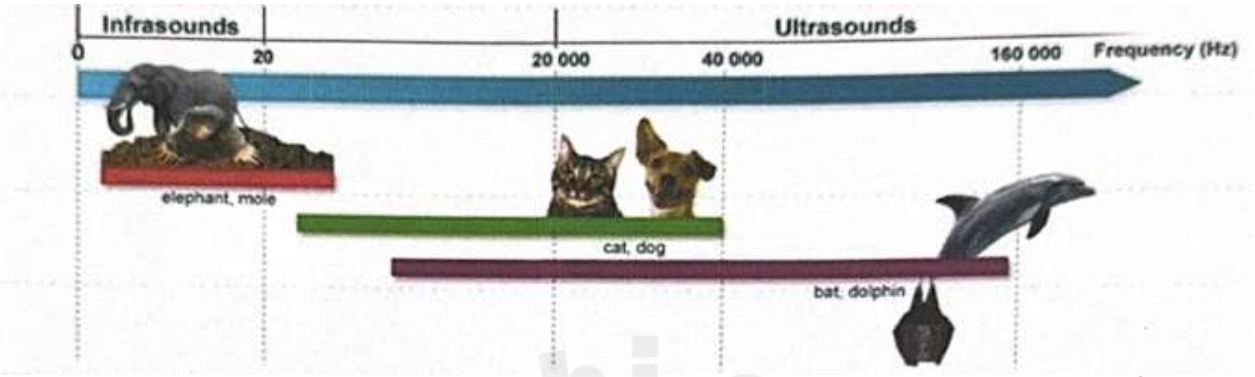
c) The frequency range for a human is influenced by age work environment and gender the diagram below shows the hearing frequency ranges for various animals



2 marks

D) State the human hearing frequency range in Hertz (HZ)

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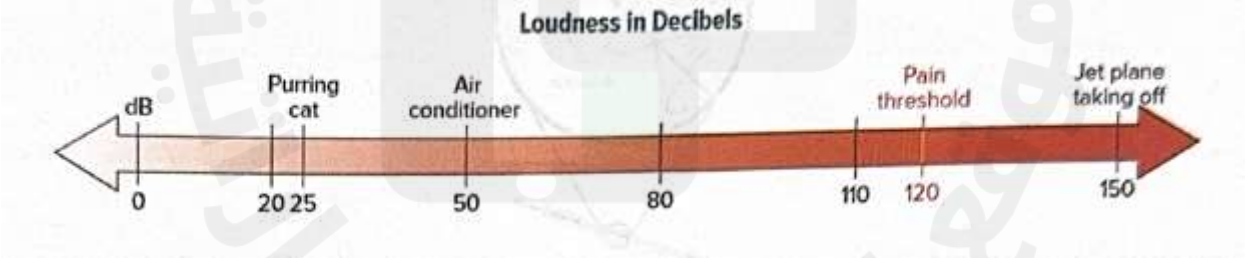
…… ……

E) Long term exposure to loud music can result in permanent hearing loss . using the information in the figure below . state in decibels (dB) the level above which sustained exposure can cause permanent hearing loss

3 marks



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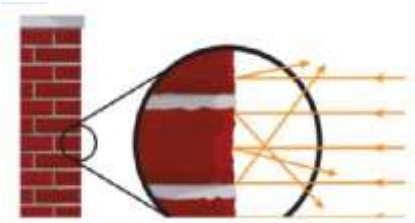
Part 2 : choose the correct answer (15 Q × 4 marks)

Question	1	السؤال

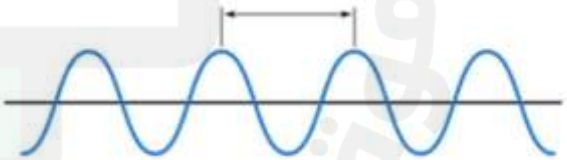
The illustration below demonstrates a type of reflection referred to as



A	regular
B	diffuse
C	plane
D	normal

Question	2	السؤال

The diagram below represents a transverse wave, what is the name of the distance from one crest to the next crest of the wave?



A	amplitude
B	frequency
C	Wavelength
D	intensity

Part 2 : choose the correct answer

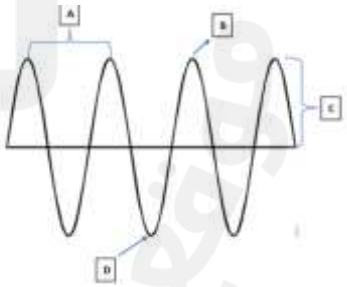
Question	3	السؤال

The interference of two sound waves with slightly different frequencies produces pulsing sounds known as

A	beats
B	overtone
C	noise
D	resonance

Question	4	السؤال

The wave model is shown. The time between each wave in the model is 2 seconds . How would the wave model be affected if the wave appeared every 6 seconds ?

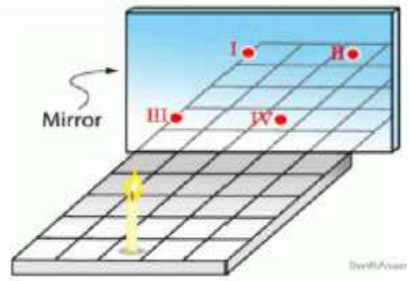


A	Distance of part A would decrease
B	Distance of part A would increase
C	Distance of part c would decrease
D	Distance off C would increase

Part 2 : choose the correct answer

Question	5	السؤال

A candle is placed on a ruled grid in front of a plane mirror, as shown below . In which position the image was formed



A	I
B	III
C	II
D	IV

Question	6	السؤال

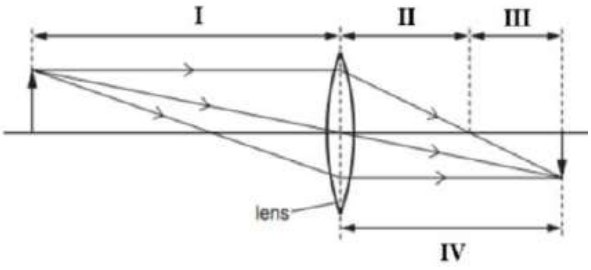
Which statement best describes why an object appears to be distorted when you view it through a glass of water?

A	The glass and the water reflect the light and different directions hence the object appears to be distorted
B	The glass and the water absorb the light by different amounts the object appears to be distorted
C	Light rays refract when they bus from one medium to another hence the object appears to be distorted
D	The glass and the water disperse the light into the components hence the object appears to be distorted

Part 2 : choose the correct answer

Question	7	السؤال

The diagram below represents light rays travelling through a convex lens. Which number represents the focal length of the lens?



A	I
B	II
C	III
D	IV

Question	8	السؤال

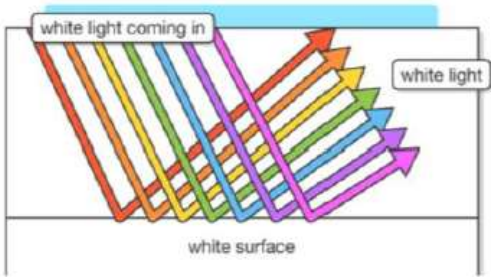
A tuning fork is an instrument that produces a note (sound) with a specific frequency. The image shows a stationary and a vibrating tuning fork. ?

A	They are transverse.
B	They are longitudinal.
C	They are both transverse and longitudinal.
D	They are neither transverse nor longitudinal.

Part 2 : choose the correct answer

Question	9	السؤال

A white surface looks white because it .



A	absorbs all of the colours of light that shine on it
B	reflects all of the colours of light that shine on it
C	reflects white light, but absorbs all of the other colours that shine on it
D	transmits white light, but absorbs all of the other colours that shine on it

Question	10	السؤال

Ahmed recorded the amplitudes of four sound waves and calculated the energy associated with them as follows.
Observe the above data and predict the energy of waves Q and R. ?

Wave	Amplitude (units)	Energy (units)
P	1	1
Q	3	?
R	5	?
S	6	36

A	Q=9 and R=25
B	Q=6 and R=10
C	Q=3 and R=5
D	Q=9 and R=15

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Part 2 : choose the correct answer

Question	11	السؤال

A student was performing an experiment to study the speed of sound in different media. He selected steel and air for his experiment. Which media do you think will allow sound to travel the fastest and why? .

A	Steel, as it is more dense and more elastic than air.
B	Steel, as it is less dense and less elastic than air.
C	Air, as it is more dense and more elastic than steel.
D	Air, as it is less dense and less elastic than steel.

Question	12	السؤال

As a musical concert begins white stage lights shine on a singer wearing a red dress, suddenly the lights go off and a green light on the singer that dress why does the dress look black?

A	The dress reflects the green part of the light
B	The dress reflects the black color
C	The dress absorbs the green part of the ligh .
D	The dress absorbs the red part of the light.

Part 2 : choose the correct answer

Question	13	السؤال

Why do clouds appear opaque

A	Because the sunlight will be refracted by water particles and no light will be transmitted
B	Because the sunlight will be transmitted by water particles and no light will be scattered
C	Because the sunlight will be scattered by water particles and the no light will be transmitted
D	Because the sunlight will be diffracted by water particles and no light will be transmitted

Question	14	السؤال

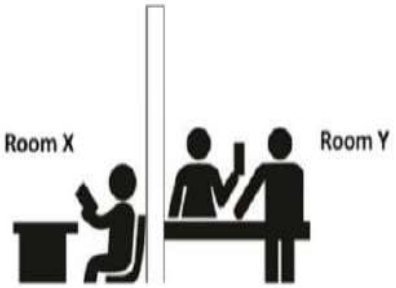
Lama plays her violin. Explain what happens to the sound waves that the violin produces as Lama plays from low pitch notes to high pitch notes.

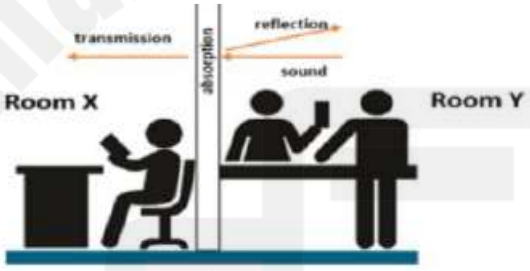
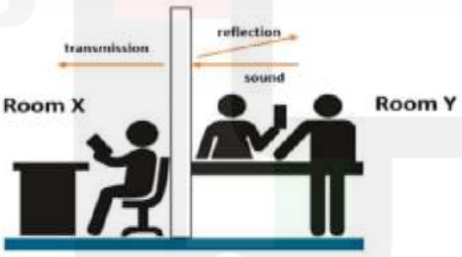
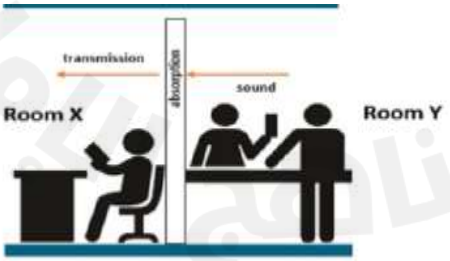
A	The wavelength of the sound waves remains the same.
B	The frequency of the sound waves increases.
C	The frequency of the sound waves decreases.
D	The wavelength of the sound waves increases.

Part 2 : choose the correct answer

Question	15	السؤال

Fatima who is in room X can hear the conversation between her friends who are in room Y



A	
B	
C	
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