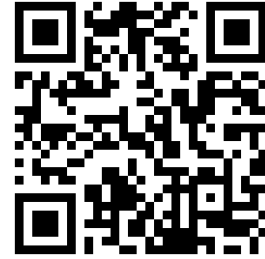


شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



أسئلة امتحان نهائي بدون حل وفق الهيكل الوزاري نخبة

[موقع المناهج](#) ⇨ [المناهج الإماراتية](#) ⇨ [الصف الثامن](#) ⇨ [علوم](#) ⇨ [الفصل الأول](#) ⇨ [الملف](#)

التواصل الاجتماعي بحسب الصف الثامن

روابط مواد الصف الثامن على تلغرام

[الرياضيات](#)

[اللغة الانجليزية](#)

[اللغة العربية](#)

[التربية الاسلامية](#)

المزيد من الملفات بحسب الصف الثامن والمادة علوم في الفصل الأول

[ملخص وشرح الدرس الأول Lesson1 travels light how مع امتحانات السنوات السابقة](#)

1

[ملخص وشرح الدرس الأول Properties Wave خصائص الموجة](#)

2

[أسئلة الامتحان النهائي بريدج](#)

3

[حل أسئلة الامتحان النهائي - انسباير](#)

4

[حل مراجعة الدروس المطلوبة وفق الهيكل الوزاري انسباير](#)

5

G8 Elite EOT1 Example Questions 2022-23

Question 1 A
What is the mathematical relationship between amplitude and energy of a wave?
Question 1 B
How energy carried by a wave corresponds to its amplitude?

Question 2 A
How does the wavelength change if the frequency of a wave decreases?
Question 2 B
What is the difference between wavelength and frequency?

Question 3 A
What are the ways in which waves interact with matter?
Question 3 B
What do you think happens when a wave hits a hard surface?

Question 4 A
What is diffraction of sound?
Question 4 B
Explain the phenomenon diffraction.

Question 5 A
How does the energy of a light wave depend on its frequency?
Question 5 B
What happens to the energy of an electromagnetic wave if its frequency increases?

Question 6 A
Why does an apple look red?
Question 6 B
Explain how different colors of light affect how you see color.

Question 7 A
How does the index of refraction of a medium affect the speed of light?
Question 7 B
Why does the speed of light change when it travels from one medium to another?

Question 8 A
Describe each section of the human ear and its role in hearing.
Question 8 B
Explain the functions of outer ear in the process of hearing.

Question 9 A
The loudness of a sound wave is related to its _____ and the pitch of a sound wave is related to its _____.
Question 9 B
Compare and contrast loudness and pitch.

Question 10 A
What are the advantages of using electromagnetic waves for transmitting information through long distances?
Question 10 B
What are the disadvantages of using electromagnetic waves for transmitting information through long distances?

Question 11 A
Why does sound travel faster through a solid than through a gas?
Question 11 B
Identify two reasons why sounds usually travel slower through gases than through solids.

Question 12 A
Define Doppler effect.
Question 12 B
A change in pitch or wave frequency due to a moving wave source is an instance of the _____.

Question 13 A
What is the frequency of the second overtone if the fundamental frequency is 308 Hz?
Question 13 B
If the frequency of the first overtone of a guitar string is 524 Hz, what is its fundamental frequency?

Question 14 A
Identify the range of human hearing in decibels and the level at which sound can damage human ears.
Question 14 B
What is the range of audible frequency for a human teenager?

Question 15 A
Explain how two instruments could be used to produce a pulsing sound and identify the name for this pulsing sound.
Question 15 B
One flute plays a note with a frequency of 443 Hz, and another flute plays a note with a frequency 440Hz. What is the frequency of the beats that the flute players hear?
Question 16 A
What is reverberation and what are the ways to reduce it in a concert hall?
Question 16 B
The echoing effect produced by many reflections of sound is called _____.
Question 17 A
Describe how sonar detects underwater objects.
Question 17 B
Sound travels at about 1500 m/s in seawater. How far will a sonar pulse travel in 46 s?
Question 18 A
Whether or not electrons will be ejected from metal when light shines on the metal depends on _____.
Question 18 B
Describe how electromagnetic waves transfer energy to matter.
Question 19 A
What is a photon?
Question 19 B
When light behaves like a particle, it is called a _____.
Question 20 A
Identify the beneficial effects and the harmful effects of human exposure to ultraviolet waves.
Question 20 B
How would a change in the amount of ozone in the ozone layer affect the amount of the ultraviolet and visible light waves emitted by the Sun that reach Earth's surface?