Unit 1 test

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Second term tests Unit 2 test	Science, 2nd prep.
1) Complete the following statements:	
1- Sound waves propagate through the medium as spheres of	
2) Write the scientific term:	
1- Smooth or rough surface at which the reflection of light takes place. [2- Ability of the transparent medium to refract the light. [3- A medium doesn't allow light rays to penetrate through. [4- The measuring unit of the sound intensity. [5- The characteristic by which the human ear can distinguish between sounds from sources even if they are equal in intensity and pitch. []] m different
3) Give reasons for:	
1- The explosions occurred on the Sun surface cannot be heard on the Earth.	
2- The difference in frequency between the note (tone) and noise.	
3- The intensity of sound increases when the sound source touches a resonance bo	
4- We can not see the impurities in the black honey.	
5- A light ray falls perpendicular on a reflecting surface, reflects on itself.	
4) Problems:	
1- If the measure of the angle between the incident sound ray and the reflected ray find the angle of incidence and the angle of reflection. What is relation between the	nem?

Second term tests		Colones 2 nd pren
Second term tests	Unit [₹] test	Science, 2 nd prep
1) Write the scientific term:		
 1- A short stem whose leaves have 2- Small particles that spread in the 3- Two glands that produce the fen 4- Organ in which the fetus is form 5- A process of transferring pollen 	e air to fertilize the ovules in pale cells in human female. ned and protected until birth.	plant.
2) Give reasons for:		
1- The scrotum is hanging down or	utside the body.	
2- The associated glands secrete al	kaline fluid.	
3- Bean's flower is a typical bisexu	ual flower.	
4- The nucleus of the egg cell cont	ains one half of the hereditary	y substance.
5- The petals of flower are colored	and mostly contain nectar.	
3) Complete the following stateme		
1- After fertilization, the egg cell c forms2- The calyx is a group of		
3- The female reproduction organs4- The genital system in human ma	s in the flower are	
5- The hormone that responsible for 4- Look at the opposite figure and	_	of pregnancy is
1- This flower is called bisexual be	•	to the same 7
2- Write the names of parts;	•••••	2
Mr. Adel abd Elaziz		W \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

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Second term tests	Science, 2 nd pre
	Second term test
1) Write the scientific term f	
- · · ·	gates and transfers energy along the direction of propagation.
	ght ray when it is incident in a medium of larger optical
	an critical angle for this medium. ()
- · · · · · · · · · · · · · · · · · · ·	the fundamental tone are higher in the pitch and less in intensity.
(4) I wo glands that produce	the female cells in human females. ()
2) Complete the following st	atom onts ·
	emprisessuccessive displacements, each of
which is called	-
	in point isproportional to the square
	point and the sound source, and is
proportional with the square	
(3) When you look at a coin:	in a glass of water, it'sposition appears to
be lower than the	position.
(4) Hermaphrodite flowers ta	ke the symbolwhile male flowers take the symbol
	importance for each of the following:
· · ·	
_	•
4) What happens in the follow	nuing eases?
	ency and velocity of propagation of a wave to quarter its value with
respect to the wavelength.	shey and velocity of propagation of a wave to quarter its value with
respect to the way rength.	
(2) If the time separating the	original sounds produced and its echo was less than 0.1 seconds.
(3) The distance between a li	ght source and a surface was doubled with respect to light intensity.
(4) A pollen grain falls on the	e stigma of a flower.
5) Give reasons for each of t	he following:

(1) Sound can be heard from all surrounding directions.
(2) The difference in frequency between the musical note and noise.
(3) The absolute refractive index for any transparent medium is larger than 1.
(4) A new mother should avoid air currents after delivery.
Second term tests Unit 2 test Science, 2nd prep.
1) Choose the correct answer from those between brackets:
 (a) Light waves are (mechanical transverse – electromagnetic longitudinal – electromagnetic transverse) (b) The human skin is consideredmedium. (transparent – opaque – translucent) (c) The quantum of energy of green light isthe quantum of energy of yellow light. (greater than – equal to – less than)
2) Give reasons for each of the following:(a) The energy of red light photon is less than that of orange light photon.
(b) The inability to see the impurities present in black honey.
(c) Occurrence of mirage phenomenon in desert regions at noon.
(d) The light ray that is incident perpendicular on a glistening surface reflects on itself.
3) Write down the scientific term for each of the following statements:- (a) The ability of the medium to refract light rays. () (b) The reflection in which the light rays recoil in one direction when incident on a glistening surface. () 4) Complete the following statements:- (a) Opticalis used in medicalthat are used to perform dangerous
operations without surgery. (b) Angle ofis the angle between the refracted light ray andat the point of incidence on the separating surface.
5)a- What is meant by?

(a) Absolute refractive index of water is 1.33
(b) The critical angle of transparent medium with respect to air equal 40o
<u>b- Calculate the absolute refractive index of diamond given that the speed of light in it = 1.25x108 m/s.</u>
Second term tests Science, 2 nd prep
Second term test
1) Write the scientific term for each of the following:
(1) A disturbance that propagates and transfers energy along the direction of propagation. (2) The return (recoil) of a light ray when it is incident in a medium of larger optical density by an angle larger than critical angle for this medium. (
2) Complete the following statements: (1) A complete oscillation comprisessuccessive displacements, each of which is called
(3) When you look at a coin in a glass of water, it'sposition appears to be lower than theposition.
(4) The human skin is medium while Is transparent one.
3) Mention one function or importance for each of the following:
(1) Microwave oven(2) Periscope(3) Optical fibers
4) What happens in the following cases?
(1) The decrease in the frequency and velocity of propagation of a wave to quarter its value with respect to the wavelength.
(2) The maximum displacement of the oscillating body is 2 Cm.
(3) The distance between a light source and a surface was doubled with respect to light intensity.
(4) The light ray falls perpendicular to reflecting surface.

5) Give reasons for each of the following:(1) We cannot hear the solar explosions.	
(2) The light waves are electromagnetic waves.	
(3) The absolute refractive index for any transparent medium is larger than 1.	
(4) The motion of simple pendulum is oscillating motion.	