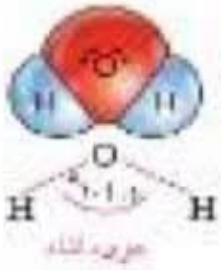
حل أسئلة الوزارة الأسبوع الثاني

تاريخ إضافة الملف على موقع المناهج: 2025-02-21 23:15:53

المزيد من مادة كيمياء:	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

المزيد من الملفات بحسب الصف الثاني الإعدادي والمادة كيمياء في الفصل الثاني

1	حل أسئلة الوزارة الاسبوع الأول



Subject: Science

Grade: Second Preparatory

Lesson: Oscillatory Motion

Classroom questions

Answer the following questions:

Question One:

-Choose the correct answer:

(1) The speed of the pendulum ball ..... the further it moves away from its rest position.

A- Increases B- Doubles

C- Decreases D- Not affected

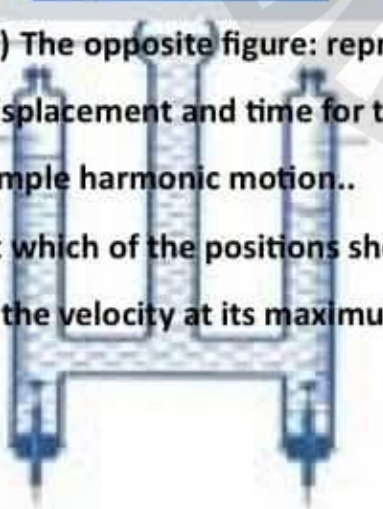
(2) All of the following are considered periodic oscillatory motion, except . .....

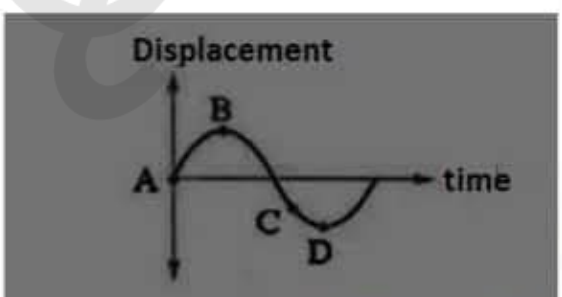
A- Simple pendulum motion. B- Tuning fork motion.

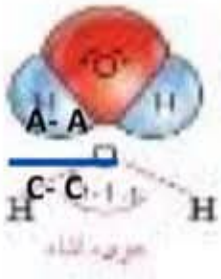
C- Rotary Bee motion. D- Stretched string motion.

(3) The opposite figure: represents the relationship between Displacement and time for the motion of a body Simple harmonic motion..

At which of the positions shown in the figure is the velocity at its maximum..... ?







A- A

B- B

C- C

D- D

Second question:

Give reasons: The periodic motion of the clock hands is not considered an oscillatory motion.

Because it is not repeated at the two sides of the rest position

Third question:

-Determine, with a mention of the reason, which of the following motions represents:

1 , 3 , 4 Bec motion is repeated at the two sides of rest of position

(1) Periodic oscillatory motion.

(2) Periodic non-oscillatory motion. 2

Because it is not repeated at the two sides of the rest position

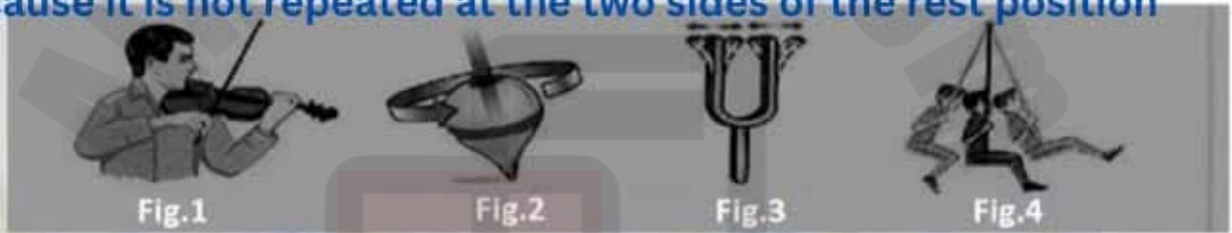
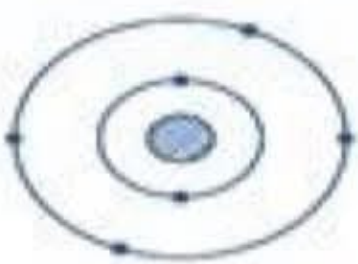
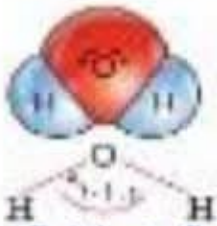


Fig.1 Fig.2 Fig.3 Fig.4





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Homework

Choose the correct answer:

1) The product of frequency and periodic time = ...

a) 0 b) 1 c)2 d) 1/4

2) As the speed of a simple pendulum increases , its kinetic energy .....

a) decreases b) increases c) doesn't change

3) The periodic time for a tuning fork makes (180) oscillations in a half minute is .....Sec.

a) 6 b) 1/6 c) 600 d) 60

4) If the amplitude of a vibrating string is 2cm so it's complete oscillation = ... m

a) 8 b) 0.08 c) 0.008 d) 0.04

5) A vibrating spring makes an amplitude of (0.1 m) during one second so it's periodic time = ... (4 / 0.25 / 40 / 0.4) second while it's complete oscillation = (40 /50 /60 / 4) cm

6) one Kilohertz = ... Megahertz .

a) 10^{-r} b) 10^{-6} c)10^{+6} d)10^{-3}

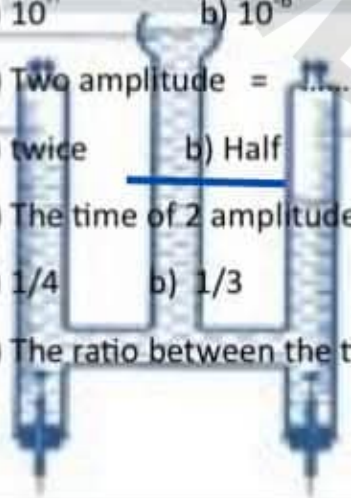
7) Two amplitude = ... Complete Oscillation.

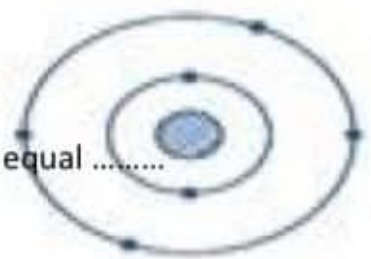
a) twice b) Half c) Quarter d) 4 Times

8) The time of 2 amplitudes = ... periodic time.

a) 1/4 b) 1/3 c) 1/2 d) 2

9) The ratio between the time of amplitude to the periodic time equal .....





a) 2:1 b) 1:4 c) 4:1 d) 1:2

10) All the following are units of measuring Frequency except .....

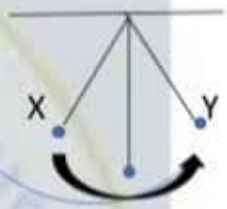
a) Hz b) Hz^{-1} c) Oscillation . Sec^{-1} d) cycle/sec

11) If the Frequency of an Oscillating body is (10 Hz) so, it makes ..... Complete Oscillation

In one minute.

a) 300 b) 60 c) 600 d) 1000

12) From the figure , when the ball moves from (X to Y)



In (0.02 sec) ,the frequency = ...Hz.

a) 0.02 b) 50 c) 25 d) 0.04

13) The periodic time of a tuning fork makes 240 wave in one minute = ... second .

a) one b) 4 c) 1/2 d) 1/4

14) The Complete Oscillation include .....successive displacement, each of them called .....

a) two , amplitude b) four , periodic time c) four , amplitude d) two , Oscillation

15) If the periodic time of a body (X) is double that of a body (Y) so the ratio between the frequency (Y) to the frequency (X) is .....

a) 2:1 b) 1:1 c) 1:2 d) 1:4

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Write the scientific term

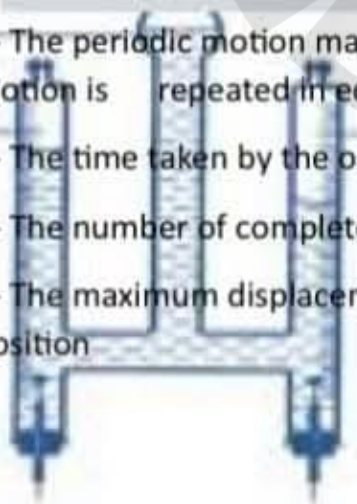
1- The motion which is repeated regularly in equal periods of time. **Periodic motion**

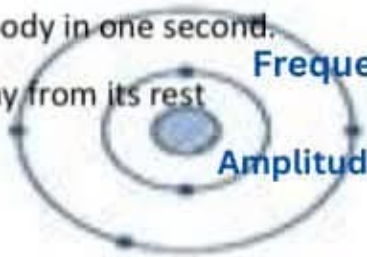
2- The periodic motion made by the oscillating body around its rest point where the motion is repeated in equal intervals of time. **Oscillatory motion**

3- The time taken by the oscillating body to make one complete oscillation **Periodic time**

4- The number of complete oscillations made by the oscillating body in one second. **Frequency**

5- The maximum displacement made by the oscillating body away from its rest position **Amplitude**





4- The movement of ..... is a periodic non-oscillatory motion.

(a) Swing. (b) Rotary Bee. (c) stretched string. (d) Tuning fork.

Question 3:

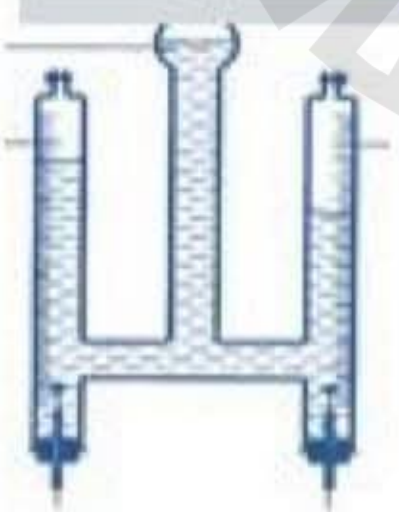
Complete the following sentences:

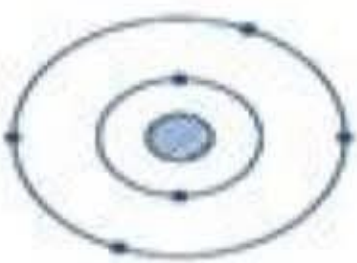
1- Oscillatory motion and Wave motion are types of Periodic motion.

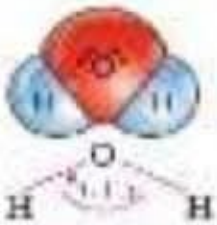
2- The speed of a vibrating body is Maximum while passing through a resting position and Decreases while moving away from it.

3- The motion of the planets around the sun is an example of Circular motion, while the motion of a seesaw is an example of Oscillatory motion.

4- The motion made by a Rotary Bee is not considered Oscillatory motion, although it is a Periodic motion.







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Week assesment

Question 1:

-Give reasons for the following:

1- Oscillatory motion is considered a periodic motion.
Because it is not repeated at the two sides of the rest position

2- The motion of the planets around the sun is considered a periodic motion.
Bec it is regularly repeated in equal periods of time

3-The vibration of the two tuning fork branches represent periodic oscillatory motion. Because it is repeated at the two sides of the rest position

4-The kinetic energy of the pendulum is at its maximum when it passes through the rest position. Bec velocity is max value when it reaches rest position

5-The motion of the pendulum is considered a simple harmonic motion.
Bec it is the simplest form of oscillatory motion

Question 2:

-What is meant by each of the following:

1- Periodic motion. it is a motion that is regularly repeated in equal periods of tim

2- Oscillatory motion. it is a motion that is repeated at the two sides of the rest position

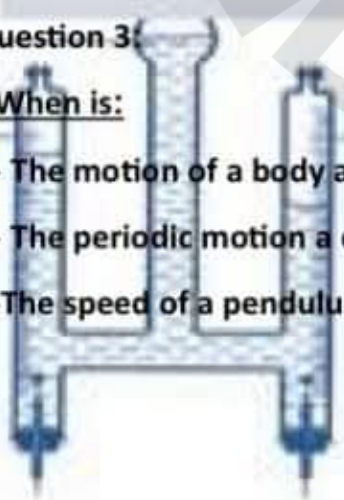
Question 3:

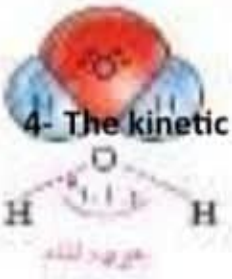
-When is:

1- The motion of a body a periodic motion.
When it is regularly repeated in equal periods of time

2- The periodic motion a oscillatory motion.
when it is repeated at the two sides of the rest position

3-The speed of a pendulum ball is maximum.
When it passes through it is rest position





4- The kinetic energy of a pendulum ball is minimum.

When the speed is minimum

Question 4:

-What happens when:

1- A pendulum ball reaches its maximum displacement away from its rest position during its motion "relative to its speed".

Speed reaches its minimum value may reach zer

2- A vibrating body approaches its rest position.

speed increases till reaches maximum value & KE is maximum

3- A vibrating body passes through its rest position during its motion.

speed reaches maximum value & KE is maximum