

رقم الجلوس :

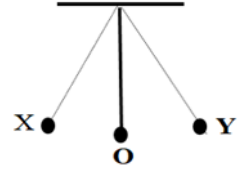
اسم الطالب :

امتحان مادة : الفيزياء بالإنجليزية
للمصف الثاني الثانوى
الفصل الدراسى الأول - ٢٠٢٥



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1- The opposite figure represents a simple pendulum. If the pendulum mass moves from point X to point Y and then returns to point O in a time of 0.15 s, the frequency of the pendulum equals



simple pendulum

a	0.05 Hz
b	0.5 Hz
c	5 Hz
d	50 Hz

2- Two waves X, Y propagate in the same medium. If the wave frequency of wave X twice that of wave Y. Which of the following statements is correct?

a	The wavelength of wave X twice that of wave Y.
b	The wavelength of wave X half that of wave Y.
c	The wavelength of wave X equal to that of wave Y.
d	The wavelength of wave X quarter that of wave Y.

3- An object falls into a pool of water. If the time required to form 20 waves is 4 s and the distance between the crest of the first wave and the crest of the third wave is 15 m, then the wave propagation speed in water is

a	75 m/s
b	37.5 m/s
c	0.667 m/s
d	1.5 m/s

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4- A light ray falls on a mirror surface such that the angle between the light ray and the mirror surface is 30° . The angle between the reflected ray and the incident ray is

a	30°
b	60°
c	90°
d	120°

5- The opposite table shows the absolute refractive indices of some materials. When a light ray X passes from medium B to

material	the absolute refractive index of the medium
A	1.52
B	1.333
C	1.5

medium A, it refracts at an angle $(\theta)_x$. When another light ray Y passes from medium A to medium C, it refracts at an angle $(\theta)_y$. If the angle of incidence of ray X on water equals the angle of incidence of ray Y on glass, the ratio of θ_x to θ_y is

a	greater than one
b	less than one
c	equal to one
d	equal to zero

6- When a light ray falls one face of an equilateral triangular prism in the position of minimum deviation, the second angle of incidence is

a	30°
b	45°
c	60°
d	90°

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7- In Young's experiment, if the distance of the fourth dark fringe from the central fringe is X, then the distance between the central fringe and the first bright fringe is

a	$\frac{X}{3}$
b	$\frac{X}{4}$
c	$\frac{2X}{7}$
d	$\frac{2X}{9}$

8- A light ray falls perpendicular on one face of a triangular prism with an apex angle of 30°. If the refractive index of the prism material is $\sqrt{2}$, the angle of emergence from the prism is

a	60°
b	45°
c	30°
d	15°

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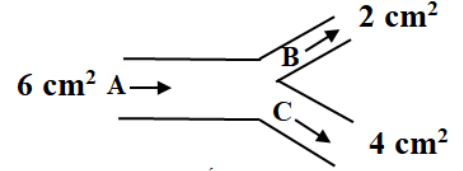
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9- The opposite diagram shows a tube through which water flows steadily. If the water speed at points A and C is 8 m/s and 4 m/s respectively, the water speed at point B is.....



a	16 m/s
b	12 m/s
c	8 m/s
d	6 m/s

10- At high speeds of car, the air resistance due to viscosity is

a	inversely proportional to the car speed
b	inversely proportional to the square of the car speed
c	directly proportional to the square of the car speed
d	directly proportional to the car speed

(((انتهت الأسئلة)))