Exercise MCQs

of simple harmonic motion? If the mass of the bob of a pendulum is increased by a factor of of the pendulum's motion will Which of the following devices can be used to produce both transverse and Longitudinal waves? Which of the following is a method of energy transfer? In a vacuum, all electromagnetic waves have the same Large ripple tank with a vibrator working at a frequency of 30 Hz produces 25 complete waves in a distance of 50 cm. The velocity of the wave is independent of the others? Which of the following is an example pendulum be increased by a factor of ceiling fan on its axis on its be decreased by a factor of 2	Which of the following is an example of simple harmonic motion? If the mass of the bob of a pendulum be increased is increased by a factor of 3, the period of the pendulum's motion will 2 which of the following devices can be used to produce both transverse and Longitudinal waves? Which of the following is a method of energy transfer? Which of the following is a method of energy transfer? In a vacuum, all electromagnetic waves have the same Large ripple tank with a vibrator working at a frequency of 30 Hz produces 25 complete waves in a distance of 50 cm. The velocity of the wave is independent of the others? Which of the following is an example of simple pendulum be increased by a factor of ceiling fan on its axis be decreased by a factor of by a factor of by a factor of a same 2 was hall of the fallowing at a string a string a string a string aripple tank wavelength velocity wavelength wave part on the fallowing aripple tank with a vibrator working at a frequency of 30 Hz produces 25 complete waves in a distance of 50 cm. The velocity of the wave is independent of the others? The relation petwoen y f and a of a serior of simple period of the motion of ceiling fan on its axis be decreased by a factor of by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall be decreased by a factor of a same 2 was hall	which of the following is an example of simple pendulum of the motion of ceiling fan on its axis on its axis If the mass of the bob of a pendulum is increased by a factor of 3, the period of the pendulum's motion will Which of the following devices can be used to produce both transverse and Longitudinal waves? Which of the following is a method of energy transfer? Which of the following is a method of energy transfer? In a vacuum, all electromagnetic waves have the same Large ripple tank with a vibrator working at a frequency of 30 Hz produces 25 complete waves in a distance of 50 cm. The velocity of the wave is Which of the following san example pendulum be increased by a factor of 2 4 wremain the same be decreased by a factor of 2 4 wavestransfer Frequency wavelength velocity wavelength velocity Frequency applitude Wavelength Vall of the Sartion of the Earth on its axis be decreased by a factor of 2 4 ware from the same be decreased by a factor of 2 4 wavelength velocity wavelength velocity Frequency applitude Wavelength Frequency wavelength Frequency wavelength Frequency wavelengt	Sr. No.	Questions	A	В	C	D
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The relation between v, f and λ of a wave is $f = \lambda$ $f = \lambda$ $f = \lambda$ $v = \lambda$	The relation between v, f and λ of a wave is $f = \lambda$	The relation between v, f and λ of a wave is $\sqrt{f}\lambda = v$ $v\lambda = f$ $v = \lambda/f$	8	characteristics of a wave is	Speed O	Frequency	√amplitude	Wavelengt
,e	ceAcadel	acience Acadell	9	The relation between ν , f and λ of a wave is	f = λ	√f λ = v	v λ = f	v = λ / f
Cao	cer	ccience		wave is	1-A	V 1 / (- V	V // - 1	V - K/
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Additional MCQs

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Sr. No.	Questions	A	B	C	D
1	The length of simple pendulum is doubled its time period will be	√√2 T	$\frac{\mathrm{T}}{\sqrt{2}}$	2Т	$\frac{\mathrm{T}}{2}$
2	In simple pendulum motion restoring force is provided by	Air resistance	Tension in string	Inertia	✓ Weight of body
3	When did Christian Huygens invent the pendulum clock?	1856	√ 1656	1756	1956
4	The example of shock absorbers of the vehicle is	SHM	Vibratory motion	✓ Damped motion	linear motion
5	Which of these waves consist of compressions or rarefaction?	Radio waves	✓ Sound waves	Television waves	X-Rays
6	If the frequency of wave is $4\ Hz$ and wavelength is $0.4\ m$, then speed will be	16 ms ⁻¹	16 m	√1.6 ms ¹	1.6 m
7	Frequency is equal to	$f = \frac{1}{g}$	$f = 2\pi \sqrt{\frac{l}{g}}$	f = kx	$\checkmark f = \frac{1}{T}$
8	The expression of Hook's law	$\checkmark F = -kx$	$k = \frac{-2F}{r}$	$F = \frac{-1}{kx}$	$F = -\frac{x}{k}$
9	Time period of simple pendulum is given by	\checkmark T = $2\pi\sqrt{\frac{1}{g}}$	$=2\pi\sqrt{\frac{m}{g}}$	$T = 2\pi \sqrt{\frac{m}{k}}$	$T = 2\pi \sqrt{\frac{g}{l}}$
10	Time period of a mass spring system is given by	$T = 2\pi \sqrt{\frac{k}{m}}$	$T = \frac{1}{2\pi} \sqrt{\frac{k}{m}}$	$T = \frac{1}{2\pi} \sqrt{\frac{m}{k}}$	\checkmark T = $2\pi\sqrt{\frac{m}{k}}$
11	K.E. of mass spring system is maximum at	Extreme position	✓ Mean position	Both A and B	None of these
13	If $l = 1$ m then the time period simple pendulum is	2.11 sec	1.89 sec	✓1.99 sec	1.88 sec
14	Bending of waves around corpers is called OR The bending of wave around obstacles or sharp edges, this phenomenon is called	Reflection	Refraction	✓Diffraction	Interference
15	In which state of matter longitudinal waves move faster	Gas	Liquid	✓Solid	Plasma
16	Which are the radio waves OR Padio waves are	Electric waves	✓ Electromag netic waves	Longitudinal waves	All of these
47	In SHM, velocity at extreme position is	Maximum	Minimum	√Zero	None of these
	The product of time period and frequency is	V	√1	0	λ
18	SI unit of frequency	√Hz	A	S	С
19	SI unit of amplitude	S	cm	√m	None of these
20	The main types of waves are	1	√2	3	4
21	When water waves enter the region of shallow water their wavelength	Increase	✓ Decrease	Become zero	Remain same
22	Earth-quake produces	Seismic waves√	Crest waves	Wave fronts	Sound waves

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