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Model Test

1.	If position vector of a particle is $ec{r}=acos\omega t\hat{i}+asin\omega t\hat{j}$ then velocity vector of particle is (1 marks)
	O Parallel to position
	O Perpendicular to position vector
	O Directed towards origin
	O Directed away from origin
2.	The velocity of projection of projectile is $v=(3\hat{i}+4\hat{j})m/s$. The horizontal range will be (1 marks)
	○ 4.8 m
	○ 48 m
	O 2.4 m
	○ 24 m
3.	A toy gun consist a spring and a rubber dart of 20g. When spring is compressed to 4 cm and released it and dart rises to 2m. If the spring is compressed to 6cm then rise in height is (1 marks)
	○ 3 m
	○ 4 m
	○ 6 m
4.	If the speed of rotation of earth increases then the wt of body on the surface of earth (1 marks)
	increases
	decreases

	may increase or decreases
A ther (1 mark	mometer which measure the temperature of body at any distance without actual contact of body is s)
	Gas thermometer
	Thermocouple thermometer
	Pyrometer
	Resistance thermometer
A pers	on can chew 3g of ice per minutes then power of his teeth is
	4 W
	12.6 W
	16.8 W
	3 W
	ound waves of phase difference 60° then they will have a path difference of
	s)
	$\left(\frac{\lambda}{2}\right)$
	$\frac{\lambda}{2}$ $\frac{\lambda}{3}$
Two tu	$\frac{\lambda}{2}$ $\frac{\lambda}{3}$ $\frac{\lambda}{6}$ Ining forks having frequencies 450 Hz & 454 Hz. On sounding, these forks together, the time between ssive maximum intensities will be
Two tu	$\frac{\lambda}{2}$ $\frac{\lambda}{3}$ $\frac{\lambda}{6}$ $\frac{\lambda}{8}$ Ining forks having frequencies 450 Hz & 454 Hz. On sounding, these forks together, the time between ssive maximum intensities will be
(1 mark	$\frac{\lambda}{2}$ $\frac{\lambda}{3}$ $\frac{\lambda}{6}$ $\frac{\lambda}{8}$ Uning forks having frequencies 450 Hz & 454 Hz. On sounding, these forks together, the time between ssive maximum intensities will be s)

	0.75 s				
sho	A small object is at 10 cm in front of a plane mirror. If you stand 30 cm behind object and look at its image. The eye should be focused at 1 marks)				
) 10 cm				
	30 cm				
	50 cm				
	efractive index of glass will be greatest for marks) red light				
	yellow light				
	violet light				
(green light				
	Next Next Next				

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