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PHYSICS

BOOKS - KUMAR PRAKASHAN KENDRA PHYSICS (GUJRATI ENGLISH)

QUESTION PAPER 01



1. A particle has an initial velocity $\Big(12\hat{i}+10\hat{j}\Big)ms^{-1}$ and an acceleration of

3. Match the following property :

Column I	Column II
1. Force	a. ms ⁻²
2. Momentum	b. kg m s ^{-2} c. kg m ² s ^{-1}
	d. kg m s $^{-1}$

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4. The unifrom circular motion of an object is a constant acelerated motion, state whether this statement is true or false .

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6. Match the following property :

Column I	Column II
1. Force 2. Momentum	a. ms ⁻² b. kg ms ⁻² c. kg m ² s ⁻¹ d. kg ms ⁻¹



7. The unifrom circular motion of an object is a constant acelerated motion, state whether this statement is true or false .

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1. Safety (seat) belts are used to prevent accident while driving . Why ?



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3. Maganbhai completes a round , around the boundary of a square filed of length 20 meter , in 80 seconds. What would be his displacement form the origin position after 4 minute and 40 second ?



5. State Newton's third law of motion and

explain giving an example .

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6. Maganbhai completes a round , around the boundary of a square filed of length 20 meter , in 80 seconds. What would be his displacement form the origin position after 4 minute and 40 second ?

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Section D

1. The mass of a car is 1200 kg. It comes to rest

due to retardation of $2ms^{-2}$.

What would be the force (frictional force)

acting between the car and road ?



2. Define Interia . Clarify the term Interia giving

practical example in daily life .

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3. Derive the equations of motion by using Velocity \rightarrow Time graph.

(a)
$$v=u+at$$
 (b) $s=ut+rac{1}{2}at^2$

Where , v= Final velocity of an object .

u= Initial velocity of an object .

a = Acceleration of an object .

t= Time duration .

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