mcq-analytical-reasoning-01-apr-2023

Total	points
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4/20



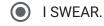
Upskill India Jan 2023 Program.

0 of 0 points

I swear on my country (motherland), I swear on my mother tongue, I swear on my family, * that I will take this test sincerely and honestly.



(Icon created by kosonicon - Flaticon)



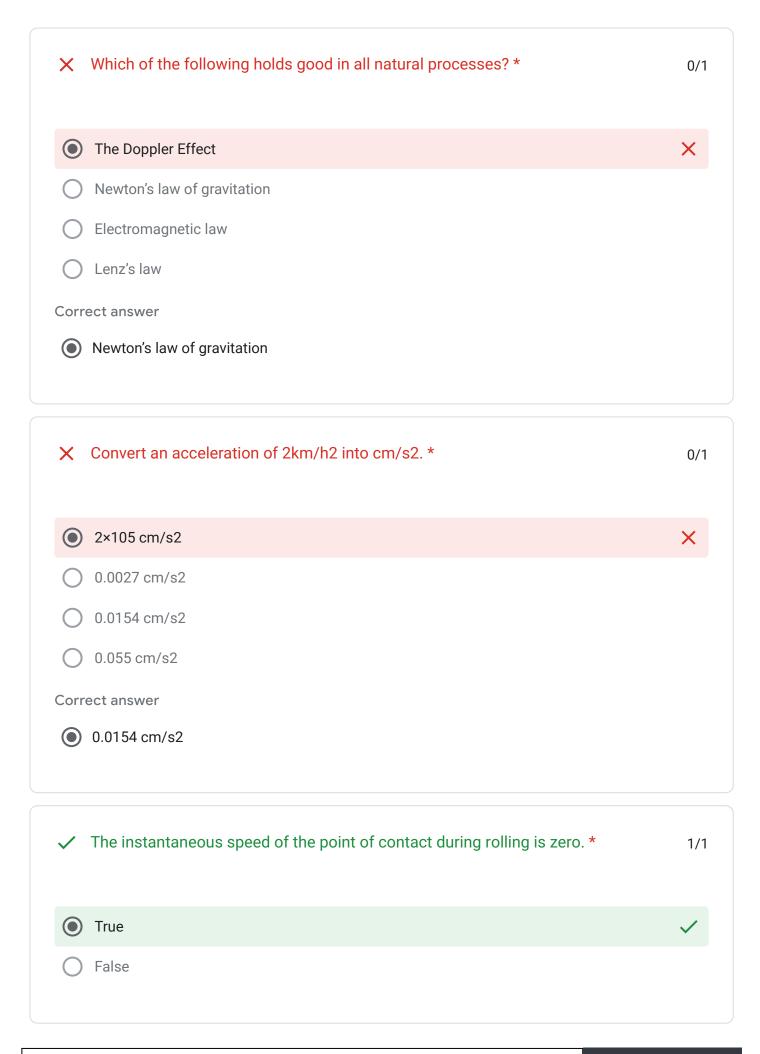
Enter your registered email as per enrollment in Open Mentor portal or Naan Mudhalvan Portal

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Enter your Naan Mudhalvan Id, if applicable. Otherwise, enter N/A *

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 Varying speed Constant velocity Constant speed Correct answer Constant velocity X Two trains A and B of length 400m each are moving on two parallel tracks with a uniform speed of 72km/h in the same direction, with A ahead of B. The driver of B decides to overtake A and accelerates by 1m/s. If after 50s, the guard of B just brushes past the driver of A, what is the original distance between them? S0m 150m 125m 1250m Correct answer 	Analy	ytical reasoning 4 of 20 p	ooints
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Constant velocity Constant speed Correct answer Constant velocity Two trains A and B of length 400m each are moving on two parallel tracks with a uniform speed of 72km/h in the same direction, with A ahead of B. The driver of B decides to overtake A and accelerates by 1m/s. If after 50s, the guard of B just brushes past the driver of A, what is the original distance between them? 50m 150m 125m 1250m Correct answer	•	Varying velocity	X
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150m 125m 1250m Correct answer	×	uniform speed of 72km/h in the same direction, with A ahead of B. The driver of B decides to overtake A and accelerates by 1m/s. If after 50s, the guard of B just	*0/1
125m1250mCorrect answer	•	50m	X
O 1250m Correct answer	\bigcirc	150m	
Correct answer	\bigcirc	125m	
	\bigcirc	1250m	
(a) 1250m	Corre	ect answer	
		1250m	



×	A mass m is moving with a constant velocity along a line parallel to the x-axis, away from the origin. Its angular momentum with respect to the origin	*0/1
•	Is zero	×
0	Remains constant	
0	Goes on increasing	
\bigcirc	Goes on decreasing	
Corr	ect answer	
•	Remains constant	
×	A body is moving along a straight path. What will happen to the body in the absence of an external field?	*0/1
•	It will stop	×
0	It will move with the same speed in a different path	
0	It will move with the same speed along the same straight path	
0	It will move with a reduced speed along the same path	
Corr	ect answer	
•	It will move with the same speed along the same straight path	

×	Which of the following is also known as the law of inertia? *	0/1
	Newton's second law of motion	×
0	Newton's third law of motion	
0	Aristotelian law of motion	
	Newton's first law of motion	
Cor	rect answer	
	Newton's first law of motion	
✓	When a cyclist is moving along a curved path, he*	1/1
) Leans inwards	✓
0) Leans outwards	
) Is still	
0) Leans sideways	

× Friction can be increased by*	0/1
Using air cushion	×
Lubricants	
Using sand	
Using ball bearings	
Correct answer	
Using sand	
✓ Mechanical waves are called elastic waves. *	1/1
True	~
False	
★ Which of the following is also known as pressure waves? *	0/1
Transverse waves	×
Congitudinal waves	
Mechanical waves	
Stationary waves	
Correct answer	
Longitudinal waves	

Sound travels through a gas under which of the following condition? *	0/1
Isothermal condition	×
Non-isothermal condition	
Adiabatic condition	
Transverse condition	
ect answer	
Adiabatic condition	
Transverse waves can be formed in fluids. *	0/1
True	×
False	
ect answer	
	Non-isothermal condition Adiabatic condition Transverse condition act answer Adiabatic condition Transverse waves can be formed in fluids. * True False

×	A truck and a car are moving with equal velocity. On applying brakes, both will stop after a certain distance, then?	*0/1
•	Truck will cover less distance before stopping	×
0	Car will cover less distance before stopping	
0	Both will cover equal distance	
0	None of the mentioned	
Corr	ect answer	
•	Car will cover less distance before stopping	
×	A stone of mass m tied to one end of a string of length I is rotated in a circle with the other end of the string as the centre. The speed of the stone is v. If the string breaks, the stone will	*0/1
•	Move towards the centre	×
0	Move away from the centre	
0	Move along tangent	
\bigcirc	Stop	
Corr	ect answer	
•	Move along tangent	

 ● Greater ✓ ✓ ✓ Doesn't vary X Two balls of different masses (one lighter and one heavier) are thrown vertically upward with same initial speed. Which one will rise to a greater height? ● The lighter one ✓ ✓ Neither Both the balls 		
Lesser Equal Doesn't vary X Two balls of different masses (one lighter and one heavier) are thrown vertically upward with same initial speed. Which one will rise to a greater height? The lighter one The heavier one Neither Both the balls	How is the speed related to the magnitude of velocity? *	1/
Equal Doesn't vary Two balls of different masses (one lighter and one heavier) are thrown vertically upward with same initial speed. Which one will rise to a greater height? The lighter one The heavier one Neither Both the balls) Greater	✓
 Doesn't vary X Two balls of different masses (one lighter and one heavier) are thrown vertically upward with same initial speed. Which one will rise to a greater height? The lighter one Neither Both the balls 	Lesser	
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The heavier oneNeitherBoth the balls		*0/1
NeitherBoth the balls	The lighter one	×
O Both the balls	The heavier one	
	Neither	
Correct answer	Both the balls	
	rect answer	
Both the balls	Both the balls	
•		Greater Lesser Equal Doesn't vary Two balls of different masses (one lighter and one heavier) are thrown vertically upward with same initial speed. Which one will rise to a greater height? The lighter one The heavier one Neither Both the balls rect answer

×	A player throws a ball upwards with an initial speed of 29.4m/s. What is the direction of acceleration during the upwards motion of the ball?	*0/1
•) Upwards	×
C) Diagonal	
C) Projectile motion	
C) Vertically downwards	
Cor	rect answer	
•	Vertically downwards	
×	Which of the following leads to the law of conservation of energy? *	0/1
×		0/1
) Gravity	
) Gravity) Isotropy	
) Gravity) Isotropy) Nuclear force	
) Gravity Isotropy Nuclear force Homogeneity of time	

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