



Topics to be covered



- 1 # Inextia.
- 2 1st, 2nd, 3rd Law of Instion
- 3
- 4

30 to 35 question NET + JEE Main + JEE AD -> DPP Practic Karo - maha-manthan - Theory (NCERT + MCV) 1000/0 (evered La Sangharch assym (42+44918+16)

(motion lin plance) Sangha La Bosed on circula AHW solution motion. Same has Must hai Karna & Kudh Concept discard Kiyn hai USKO Noton of

add Karna had

5.

mycoso my mysince

Smooth

(speed)

Smooth

what about speed ??

What about speed ??

(Smooth)

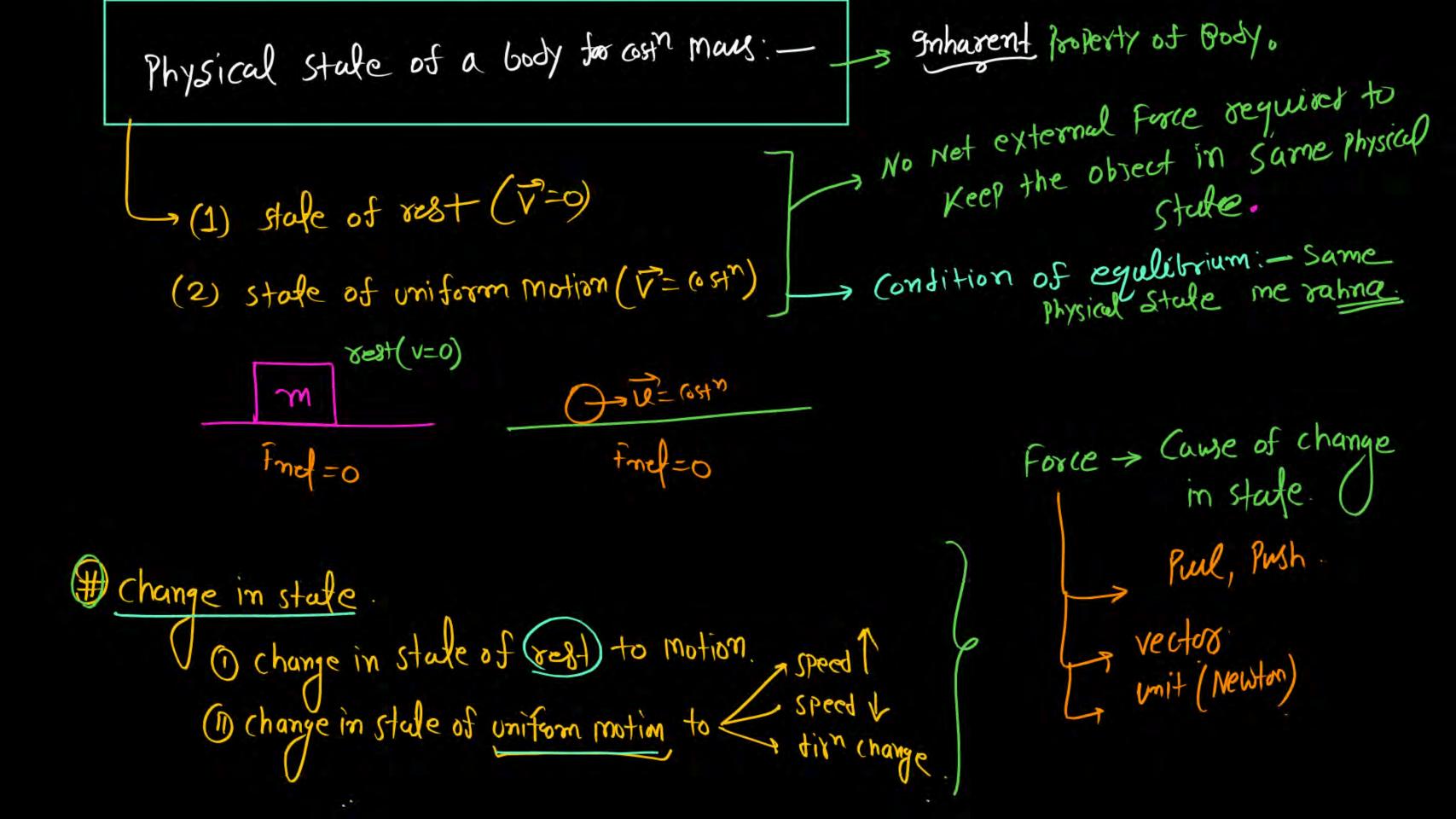
If (velocity) = cot

Tosce = 0

Motion is inharent Property of body.

(2) Who is responsible to keep the object in Motion ??

Ang of No external Fret = 0)



MR* Box: - for Force

- O Fusce ke live ye dekho Koin-kis Pe from apply Kar raha hai force.
- 12) Kitna force, Kis diretion me hai, or kis point par apply ho raha hai

Kitna, Kidhez, Kis Point Par

MR* Box for Translational equilibria # Fried = 0 \(\tilde{\text{V}} = \text{Cost}^n\) \(\text{V} = \text{Cost}^n\) \(\text{Vost}\)

This is Nota the change in state (physical state) Inertia. Physical quantity.

+ 9t can't measure or calculate, can compair only > Inertia of speed) 1) Inestia of rest: Inextial > Inextia Inertia of mars M=lokg Junit - Xax Kg

which have More Inertia??

equal Inestia

Romlal V-10m/s

Romlal (Inextia of motin)

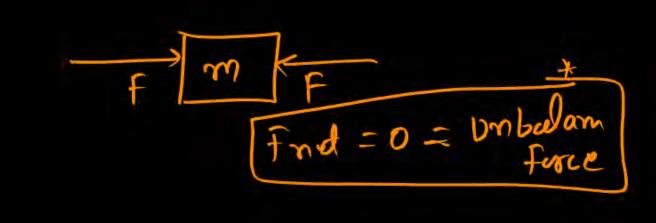
Pinky (rest)

M=10kg

(Inextia of rest)

Newtons 1t Law

L's Law of Imertia.
L's qualitative defination of motion.



- # 9f Net external force Acting on object is zero, then it will continue.

 it physical state of rest of state of uniform motion.
- Object will Continue its stufe unless sontil nex external force will act on it.
 - # Efx=0 ; Qx=0 = V2= (of"
 - # Sym y=0; dy=0; lly=(4)



NEWTON'S FIRST LAW OF MOTION



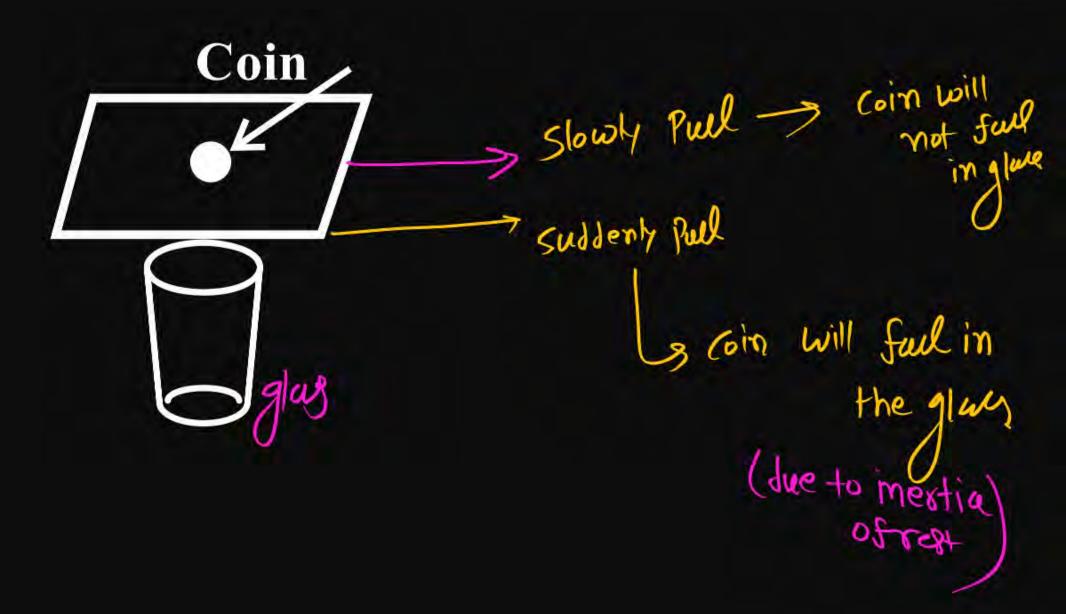
An object that is at rest will stay at rest



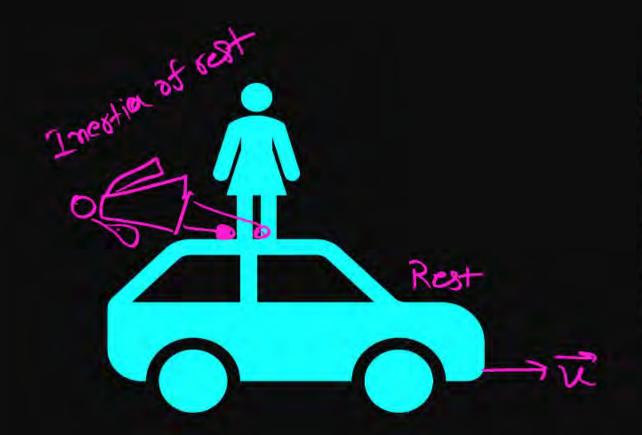
Unless an external force acts upon it.

An object that is at rest;
will stay at rest unless
an externs force
activitymet









Suddenly car starts to move then Pinky will fall

- (a) Forward
- (b) Backward
- (c) Remains same

Kids in the school bus when the driver randomly hits break



Not on of riet







When an object is at rest

- Force is required to keep it in rest state
- No force is acting on it X 10 find of
- 3 A large number of forces may be acting on it which balance each other
- 4 It is in vacuum



When an object is in equilibrium state, then

- It must be at rest
- No force is acting on it
- 3 Its net acceleration must be zero
- 4 All of these

Question

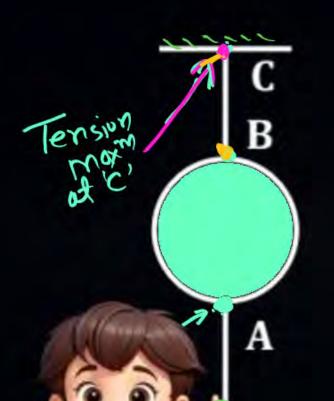




An athlete does not come to rest immediately after crossing the winning line due to the

- 1 Inertia of rest
- Inertia of motion
- 3 Inertia of direction
- 4 None of these





Pulling Slowly

String will breek from (c)

Maxim Tension at (c)



Pulling Suddenly

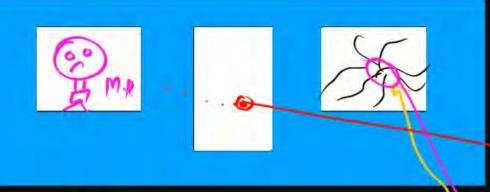
String will bream
from (A)
due to Incotin



बर पर लिख



time of contact Back Ke (de me Tayda hoga.



Belte July Kallun

Ball se glaus Break huaq but bullet se kyu Nahi huaa?? Lilet se Just hole huaa

due to Inertia of rost glass.

build se Just hole huaa.

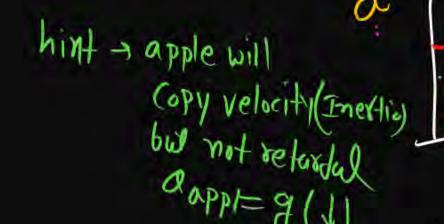
Question





A boy sitting on the topmost berth in the compartment of a train which is just point to stop on a railway station, drops an apple aiming at the open hand of his brother sitting vertically below his hands at a distance of about 2 meter The apple will fall:

- Precisely on the hand of his brother.
- Slightly away from the hand of his brother in the direction of motion of the train.
- Slightly away from the hand of his brother in the direction opposite to the direction of motion of the train.
- 4 None of the above









- Fundamental Force
 - (1) Gravitational force
 - (2) Electromagnetic force
 - (3) Strong nuclear force
 - (4) Weak nuclear force

mucker physics

-> mg (due to gravitable) Derived force Weight force **Normal Reaction** > Tension > all force are

Jerived from force

electromagnetic Friction **Buyant force** Viscus force Spring force

Likho ATPMT of friction of fri

Newton 3rd Law: _ -> Action & readilon are not a cause effect-

Every Action have equal and opposite reaction.

(#) (a) correct studement ??

MR Scan (a) Action is a cause of reaction

X(6) Reaction is a couse of Action.
X(0) Both.

(d)// Name of they

(only 5%)

Const

You can't touch without being Newtons 38 Law: touched - Newtons 3rd Law > defination of force > force always exist in Pair. > Two object will apply equal 3 opposite force on each other > all on object or That force acts of some timex -3 Nature of Force of action & reaction must be (Same: noture A8 - NO, becase on grown 113 mg acts on some body act on diffy pod > FAB = FBA

Contact force

Trongal reaction

Friction force

Tension

Won-Contact Force

Spavitational force

Selectoostedic fore

Smagnetic force

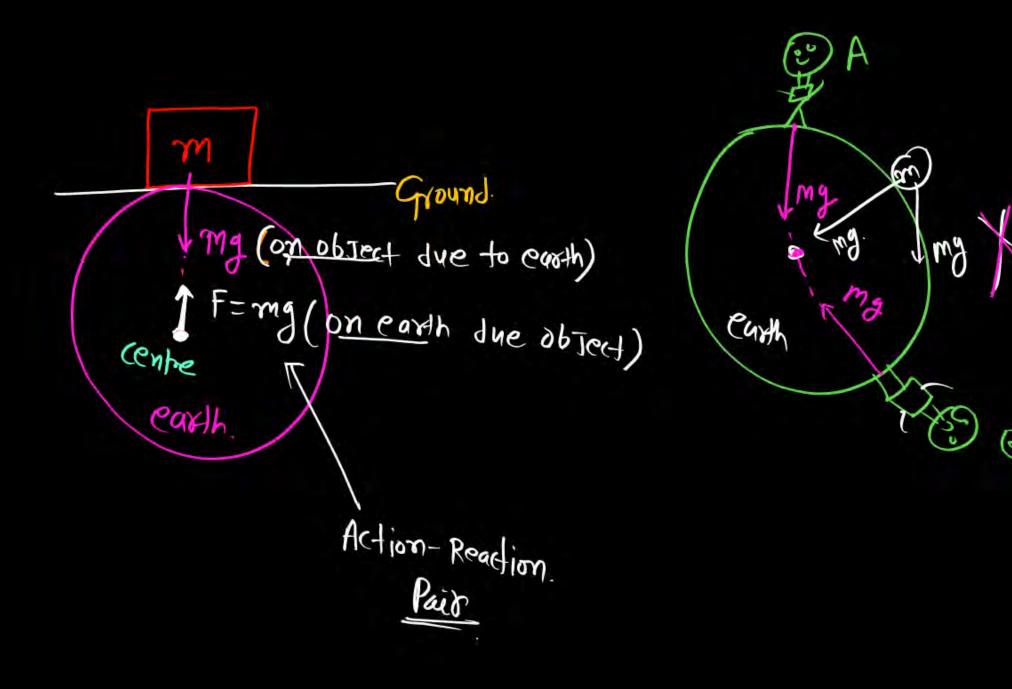
Nucles force

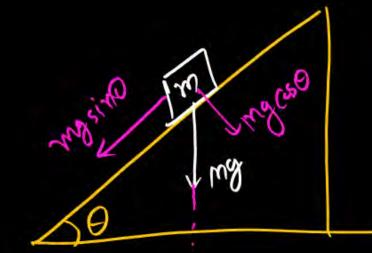
my F₁₂ -F₂₁

equal s opposite of gravitational force.

A distance.

Gravitational force: - weight force -> diretion always toward centre of casth: -





Normal reaction (Normal force) > due to contact. > Mormal rein always acts at contact of two body Perpendicula to contact Syxface -West Box Are Warm object Jaha Confact hair, Contact Surfap Ke Ir, do Parael CLOUNG. line draw karo.

(2) Ball is Project of angle B, then find a such that its Position vector always Incode from Point of Projection, during Projectile.

Motion.

0=90>



Mahamantan Sanghanh assignment

Home work

ausignment solution Jekh lena



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