Second Term EXAM 2019 Physics Answer Key

- Q.1 kgm/s
- Q.2 Instrument B
- Q.3- 4
- Q.4 Figure 2
- Q.5 0
- Q.6

INERTIA OF REST	INERTIA OF MOTION
AN at hlet e run some dist ance bef ore taking long jump	When a carpet is suspended and hit with a stick dust particles come out
When a moving bus is suddenly stopped the passengers f all f orward	When the branches of mango tree is shaken mangoes fall just as when branches start moving

- Q.7 .a, a=(v- u/ t)=(25- 15/ 5)=2m/ s2
- b. F=ma=5×2=10N
- Q.8.a,Both of them reach simultaneously
- b. Acceleration due to gravity doesn't depend on mass
- Q.9 ₩=mgh=.250×10×1=2.5J
- Q.10 a, Mass, Acceleration due to gravity
- Q.11

А	В	С
INERTIA	Newton first lawof motion	mass
IMPULSE	change in moment um	Ns
FORCE	Newt on second lawof motion	kgm⁄ s

Q 12

a, passengers showt endency to move $f\, orward$.

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b,To increase time to reduce force c,Action and reaction take place in 2 bodies Q13, a, The motion of stone dropped from height b,0.The weight is used to accelerate the body. Q.14 a, Mass b, KE =1/2mv2=1/2×30+10×4=80J 15. a, unif orm motion of body towards circular path b, A needed of clock, pendulum et c... 16.a,35kgm/ s b,7m/s c, Lawof conservation of momentum Q.17 a, Force, displacement b,Joule C,.cricket ball move forward .A trolley is being moved by pushing it Q.18. a,No b, 0 c,A.At poles radius is less and g is more. Q,19 a, Action - The bullet move forward Reaction - The gun recoil b,m=.2 kg M=4kg v=40m/ s V=- mv/ M=.2×40/ 4=- 2m/ s Q.20 a, 4 times b, All the bodies in earth attract each other. There is a mutual reaction between all bodies in earth. c,F=Gm1m2/ d2= G20×40/ 4×4=G800/ 16=50N

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