m

-1	1) A car or mass 600kg moving with a forward [II] A body travels from rest with deceleration
MA	acceleration of Smish is acted upon by a constant 8mis? Find its velocity when it has reached
-	resistive Horar of Nano H. Caloulate the force exerted from distance of 100m. P ANS. 40mls.
1	the engine to maintain this forward acceleration, [12] An object moves in a straight line, Star
-	Ans THEN sofrom Hest. There are thur stages in the jour
الملك	2) Ar car travels 20km due Horth and then 35km in 2 (a) it gains speed uniformly for 2015 and attains
-11	direction of 60° Westor North. Find the magnitude of the Special of 8.0 mls (b) it continues at the Sp
	resultant displacement of the Car. for a further \$55. Find the total distance in
- 11	AHS. 48.2km. during Stages (A) and 6) 211 AHS. 20m.
19.33	3) A player hits a ball of mass 0.3kg which was moving (13) A ball thrown vertically upward from ground
<u> </u>	eastwards with a velocity of 10mls, causing it mon to hits the ground after 45. Calculate the maxim
20.7 (move with velocity 15mls westward. The force of height it reached during its journey. (g=100
arid w	the blow acts on the ball for 0.01s. Calculate the average SIR-LAKE MARCH AHS. 20th.
	force exerted on the body by the player. (14) A car is drillen NE for 40km, then NW for 5
1907	AHS. 750M. And then South for 30km. Determine the
13.1 11	4) What will be the resultant force on a body of mass resultant displacement of the car.
	50kg when it moves with a Uniform velocity of 2M0000 AMS. 1
- R. 7 1	10mls? ANS. 500H (15) The dimension of density is given by
n mbrig	5) A body is dropped from rest at a height of 80m. 11 - 10) it is ANS. ML-3
1 1	How long does it take to reach the ground? (16) A particle moving in a straight line with
1.01.	(g=10m1s2). ANS. \$ Osecs. Uniform decelerationallas a velocity of 40m1s at a
	Q An object falls from a height of 20m. What is its point P, 20mls at a point Q and comes to rest
1	Velocity just before hitting the ground? (g=10mls) a point R: where GR = 50m. Ealculate the
11	ANS. 20mls time taken to cover Para ANS. 55
	AHS. ML T (17) A particle moving in a straight line with
444-24	8) A motor car is uniformly retarded and brought to uniform eleceleration has a velocity of 40 mb at 9
	rest from a velocity 36 km/hr in 5s. Find the distance point P. 20 mls at a point Q and comes to rest
	Covered in this period Atts. 25m. at a point R, where QR = 50m Calculate
د ارزاند در	9) A ball is thrown up vertically with a velocity of the distance of Pa AHS. 150m"
	40 mls. (at the time to return to the ground. (18) Find the dimension of momentum
·	ANS. 8 Sec ANS MLT
1	10) Whe dimension of energy is given as (19) The dimension of force is given by
1-1-1	ANS. ML2T-2 DOWN Dad more at Learne ax con

Qnu

20) Calculate the distance of abody moving with (27) Which of the following gum	alitic i)
Leores ent the total	- Q.
. AN DISULACE	MENT
	2)
	de
	3)
Destribute the direction of the carry	Se
MIL MAS. OMIS	- 30
	4) (
4 gan of mass ing. The bullet moving with a	
Initial velocity of 200 mls+ Find the Initial	5)
backward velocity of the gun 3HAN - AIC	Lix
GAT THE AMS A MIST OF A STATE OF THE STATE O	
23) A force of 100H acts for 20secs. Inhat is 1027	6)
15 the change in the momentum of the body	
ANS 2000 Ns	7)
at 24) A body of mass 2kg undergoes a constant	J. f
horizontal acceleration of 5m/s? Calculate To me ly selection	rai
the resultant horizontal force acting on	
the body. AMS. 10M	8) M
ne 25) A body of mass 5kg 13 to be givenon	1
acceleration of 20m1s2. Calculate the	A) MI
force required when the acceleration	
is vertically upward.	- 191
26 A ball is released from a height of	11) 12
20m. Calculate the time it takes to hit	
the ground ANS. 25	M MI
27) A worly it iprojected her jantally from the	
top of a vertical Garage at high with a 20mls falculate the vertical component of the Welfority 20mls, falculate the vertical component of the Welfority	(3) In
Velocity of when I	
MLT-2	M
	a velocity of 108 kmlbr in 1/2 mins. Parts 900m. Object. Arts DISPLACE DA car starts from rest and accelerate uniformly reacher a velocity of 30mb after 5sec. It travel with uniform velocity of 30mb after 5sec. It travel with uniform velocity of 30mb for Issec and is then brought to rest in 10s. with uniform retardation. Determine the acceleration of the Earth of the proof of the acceleration of the same of the sam

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