



Ammeter required small resistance in parallel to galvanometer and connected series with test resistance

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005 **Ph. No.:** +91-744-2777777, 2777700 | **FAX No.:** +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029
Toll Free : 1800 258 5555
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Resonance" | JEE (Main) 2023 | DATE : 06-04-2023 (SHIFT-2) | PAPER-1 | PHYSICS



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		EE (Main) 2023 DATE	E : 06-04-2023 (SHIF	T-2) PAPER-1 F	PHYSICS
41.	A particle start with an initial velocity of 10.0 ms ⁻¹ along x-direction and accelerates uniformly at the				
	of 2.0 ms ⁻² . The time taken by the particle to reach the velocity of 60.0 ms ⁻¹ is				
	(1) <mark>3s</mark>	(2) <mark>30s</mark>	(3) 2 <mark>5 s</mark>	(4) 6s	
NTA A	Ans. (3)				
Reso	Ans. (3)				
Sol.	V <mark>= 4 +</mark> at				
	60 = 10 + (2)	tetter tomorrow Educating for			
	$t = \frac{50}{2} = 25 \text{ m}$	Resonance'			
	2				
42 .	The ratio of spe	eed of sound in hydrogen g	as to the speed of sound	d in oxygen gas at the	same temperature
	is (1) 1 · 4	(2) 4 · 1	(3) 1 · 1	(4) 1 · 2	
	Ans. <mark>(2)</mark>	(_)	(0)	(.)	
Reso	Ans. (2) $T_1 - T_2$ and v_1	- vo (Both diatomic)			
COLLEGUE	$V_{\rm H}$ $M_{\rm O}$	$\overline{32}$ 4			
	$\frac{M_2}{V_{O_2}} = \sqrt{\frac{U_2}{M_{H_2}}} =$	$=\sqrt{\frac{32}{2}}=\frac{1}{1}$			
	esonar				
43.	 43. Choose the incorrect statement from the following (1) The speed of satellite in a given circular orbit remains constant. (2) When a body falls towards earth, the displacement of earth towards the body is negligible. (3) The linear speed of a planet revolving around the sun remains constant. 				
	(4) For a plan	et revolving around the si	un in an elliptical orbit,	the total energy of th	ne planet remains
	constant.				
NTA A	Ans. <mark>(3)</mark>				
Reso Sol.	Ans. (3) Theory based				
44.	Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason				
	Assertion A: When you squeeze one end of a tube to get toothpaste out from the other end, Pascal's principle is observed.				
	Reason R : A change in the pressure applied to an enclosed incompressible fluid is transmitted				
	undiminished to every portion of the fluid and to the walls of its container.				
	In the light of the above statements, choose the most appropriate answer from the options given below				
	(1) Both A and (2) Both A and (3) A is not cor (4) A is correct	R are correct but R is NO R are correct and R is the rect but R is correct but B is not correct	T the correct explanatio	n of A A Resonan	
	Ans. (2)	better tomorrow			
Reso	Ans. (2)				
Sol.	Theory based				
		Deerer			
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55. A body is dropped on ground from a height h_1' and after hitting the ground, it rebounds to a height h_2' . If the ratio of velocities of the body just before and after hitting ground is 4, then percentage loss in kinetic



= Vcos $\theta \frac{2\pi m}{qB}$ $= \sqrt{\frac{2E_k}{m} \cos\theta} \frac{2\pi m}{aB} = 0.4 \text{ m} = 40 \text{ cm}$

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