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Reson

TARGET: JEE (Adv.) 2024

For 12th Passed Students

Course Features*

- Course Duration: 32 Weeks
- Total No. of Lectures: 533 (P: 178 | C: 177 | M: 178)
- > Duration of One Lecture: **1.5 Hrs.** (90 Minutes)
- Classroom Teaching Hours.: 800 Hrs.
- Testing Duration: 60 Hrs.
- Total Academic Hours.: 860 Hrs.



AIR

JEE (Main) 2023

KAUSHAL V.



SCHOLARSHIP UPTO 100%

Based on JEE (Advanced) 2023 Score, Scholarship Test (ResoNET) & 12th Board

TARGET: JEE (Main) 2024

SCHOLARSHIP UPTO **100%**

VResonance

Based on JEE (Main) 2023 Score, Scholarship Test (ResoNET) & 12th Board

AJAY COURSE For 12th Passed Students

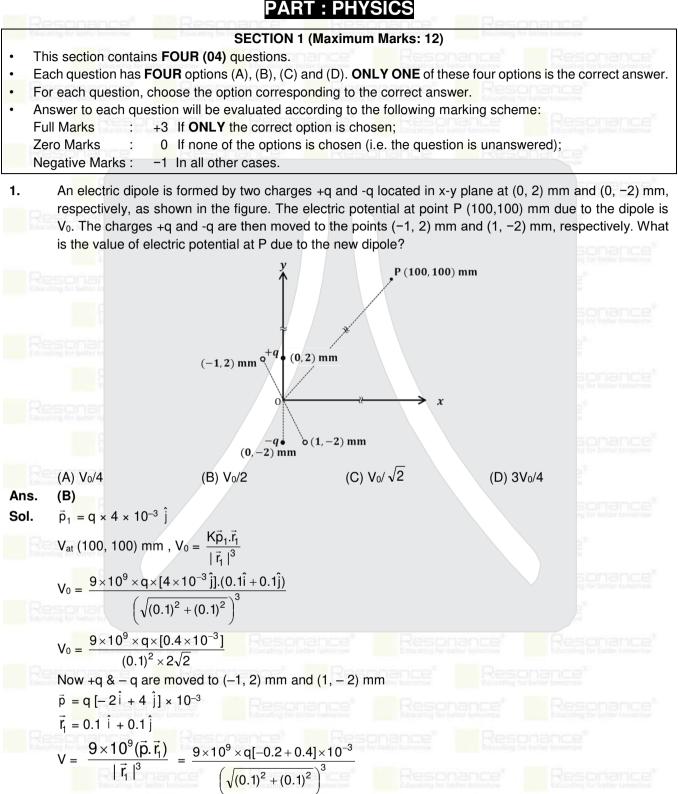
Course Features*

- Course Duration: 33 Weeks
- Total No. of Lectures: 571 (P:184 | C: 203 | M: 184)
- Duration of One Lecture: 1.5 Hrs. (90 Minutes)
- Classroom Teaching Hours.: 857 Hrs.
- Testing Duration: 33 Hrs.
- Total Academic Hours.: 890 Hrs.

CLASS STARTS 5th & 19th June



PART : PHYSICS



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

 $V = \frac{9 \times 10^9 \times q[0.2] \times 10^{-3}}{(0.1)^2 \times 2\sqrt{2}} \implies V = \frac{V_0}{2}$

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 🔊 7340010333 🚹 facebook.com/ResonanceEdu 💟 twitter.com/ResonanceEdu 🔡 www.youtube.com/resowatch 🕒 blog.resonance.ac.in

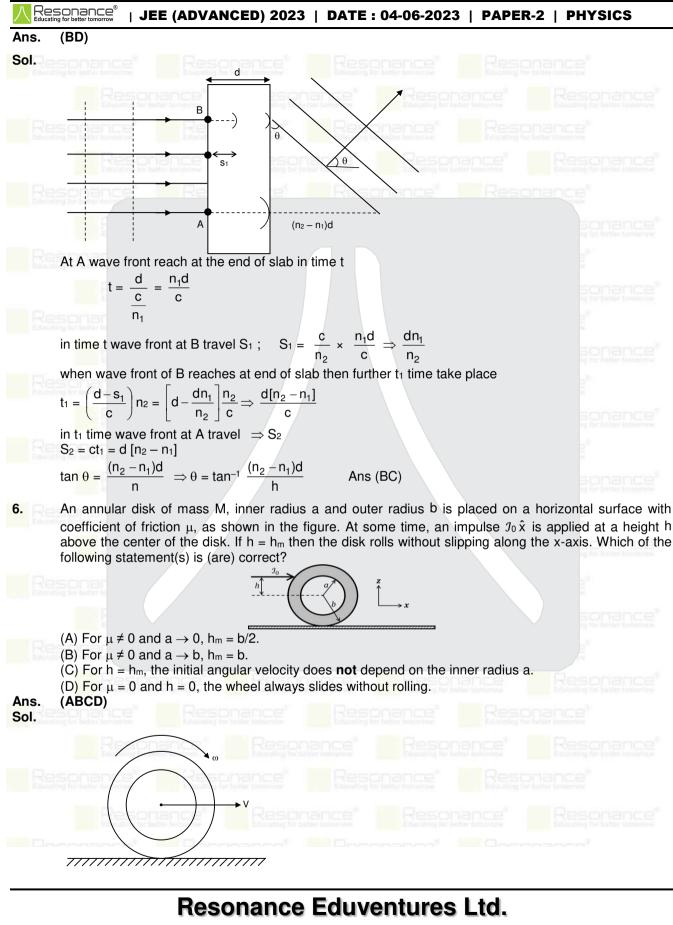
Young's modulus of elasticity Y is expressed in terms of three derived quantities, namely, the gravitational 2. constant G, Planck's constant h and the speed of light c, as $Y = c^{\alpha h^{\beta}}G^{\gamma}$. Which of the following is the correct option? (B) $\alpha = -7$, $\beta = -1$, $\gamma = -2$ (A) $\alpha = 7, \beta = -1, \gamma = -2$ (C) $\alpha = 7, \beta = -1, \gamma = 2$ (D) $\alpha = -7$, $\beta = 1$, $\gamma = -2$ Ans. (A) $Y = C^{\alpha} h^{\beta} G^{\gamma}$ Sol. $= [LT^{-1}]^{\alpha} [M^{1}L^{2}T^{-1}]^{\beta} \left[\frac{MLT^{-2}L^{2}}{M^{2}}\right]^{\gamma}$ = $[LT^{-1}]^{\alpha}$ $[M^{1}L^{2}T^{-1}]^{\beta}$ $[M^{-1}L^{3}T^{-2}]^{\gamma}$ $\mathsf{M}^{1}\mathsf{L}^{-1}\mathsf{T}^{-2} = \mathsf{M}^{\beta-\gamma} \mathsf{L}^{\alpha + 2\beta + 3\gamma} \mathsf{T}^{-\alpha - \beta - 2\gamma}$ $\beta - \gamma = 1$...(1) $\alpha + 2\beta + 3\gamma = -1$...(2) $\alpha + \beta + 2\gamma = 2$...(3) Equation (2) - (3) $\beta + \gamma = -3$ $\beta - \gamma = 1$ $2\beta = -2$ $\beta = -1$ $\gamma = -2$ $\alpha = 2 - \beta - 2\gamma = 2 + 1 - 2(-2) = 3 + 4 = 7$ 3. A particle of mass m is moving in the x-y plane such that its velocity at a point (x, y) is given as $\vec{v} = \alpha(y\hat{x} + y\hat{y})$, where α is a non-zero constant. What is the force \vec{F} acting on the particle? (A) $\vec{F} = 2m\alpha^2 (x\hat{x} + y\hat{y})$ (B) $\vec{F} = m\alpha^2 (y\hat{x} + 2x\hat{y})$ (C) $\vec{F} = 2m\alpha^2 (y\hat{x} + x\hat{y})$ (D) $\vec{F} = m\alpha^2 (x\hat{x} + 2y\hat{y})$ (A) Ans. Sol. $\vec{v} = \alpha \left(y \hat{x} + 2x \hat{y} \right)$ \Rightarrow v_x = $\frac{dx}{dt}$ = α y and v_y = $\frac{dy}{dt}$ = 2α x $\vec{a} = \frac{d\vec{v}}{dt} = \alpha \frac{dy}{dt} \hat{x} + 2\alpha \frac{dx}{dt} \hat{y} = [(\alpha)(2\alpha x) \hat{x} + 2\alpha(\alpha y) \hat{y}]$ $\vec{a} = [(2\alpha^2 x) \hat{x} + 2(\alpha^2 y) \hat{y}]$ $\vec{a} = 2\alpha^2 (x \hat{x} + y \hat{y})$ $F_{net} = m \vec{a} = 2m\alpha^2 (x \hat{x} + y \hat{y}]$ Resonance Eduventures Ltd.

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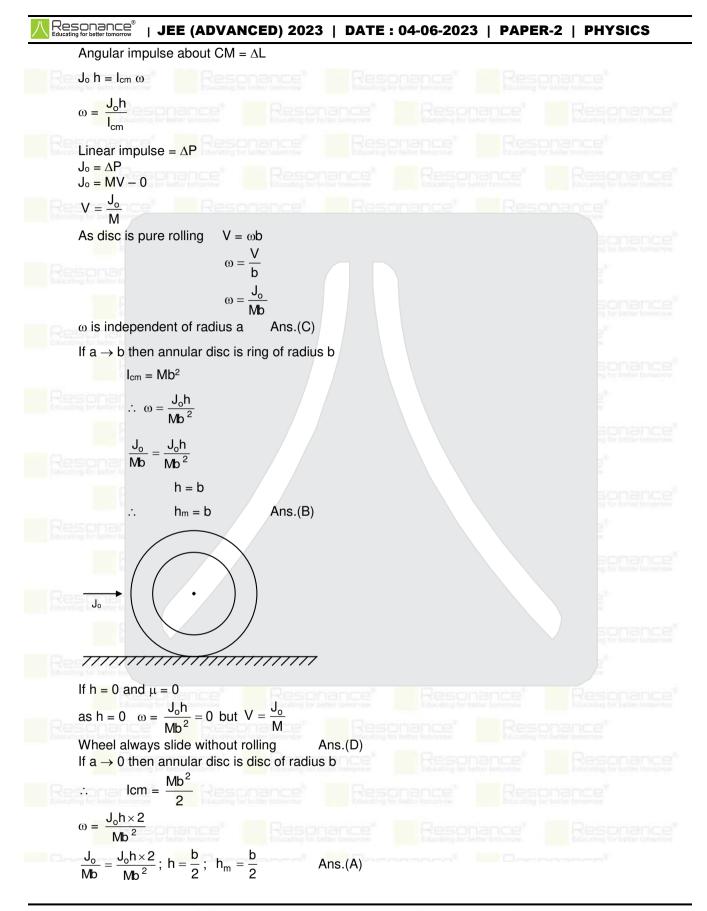
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Res			f the slab increas	•			neight h. Whic	ch of the following
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			Monochron	natic light wave				
(A) It will de	flect <mark>up b</mark> y	an angle $\tan^{-1}\left[\frac{1}{2}\right]$	$\frac{n_2^2 - n_1^2)d}{2h}$				
(B) It will de	flect up by	an an <mark>gle</mark> tan ⁻¹	$\frac{(n_2 - n_1)d}{h}$				
	c) It will no		a na an an an an an an an an an					
(D) The defl	lection and	ile depends only (on (n ₂ – n ₁)	and not on t	المانية المصل مطا	ual values of r	n1 and n2.
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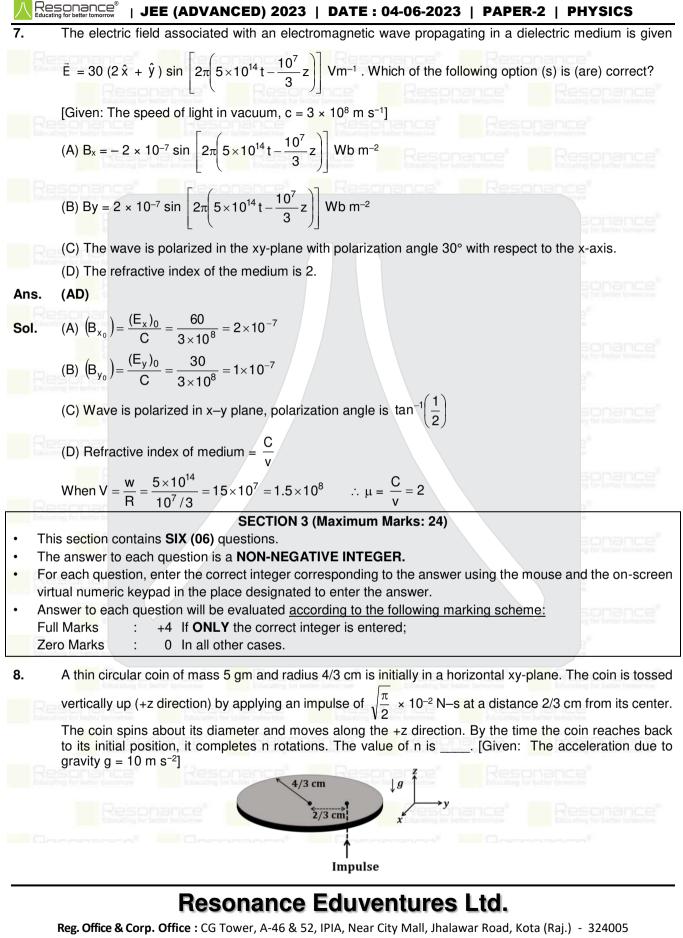
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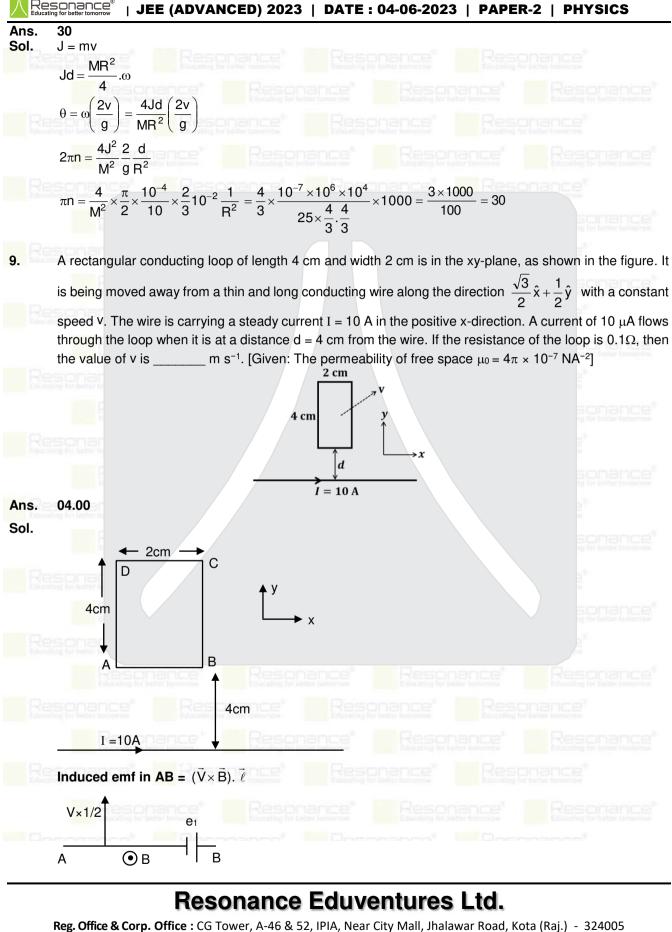
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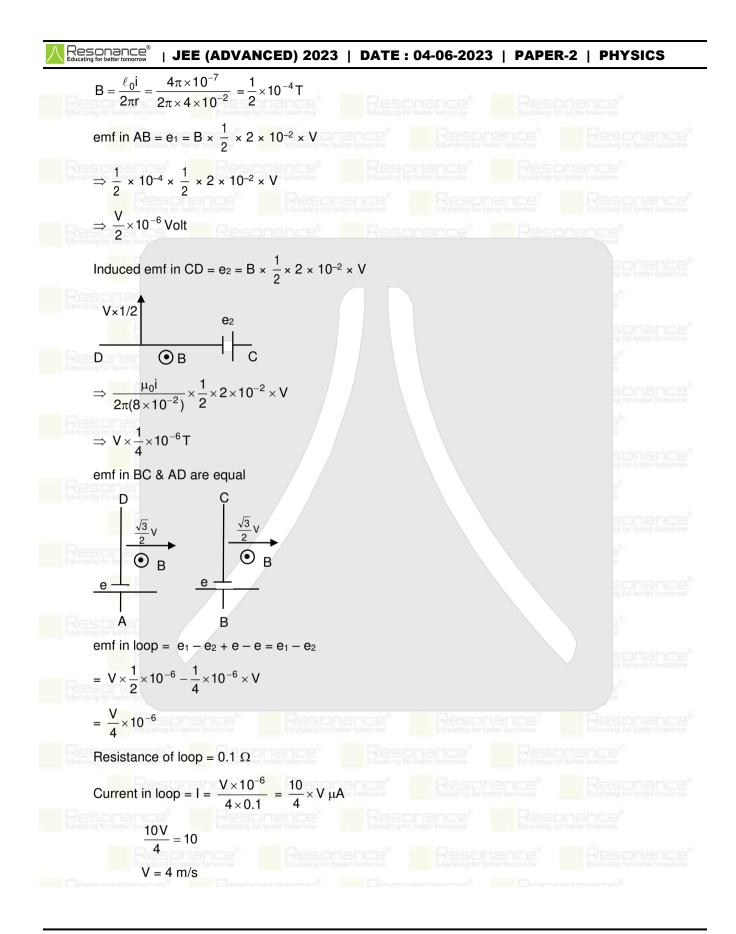
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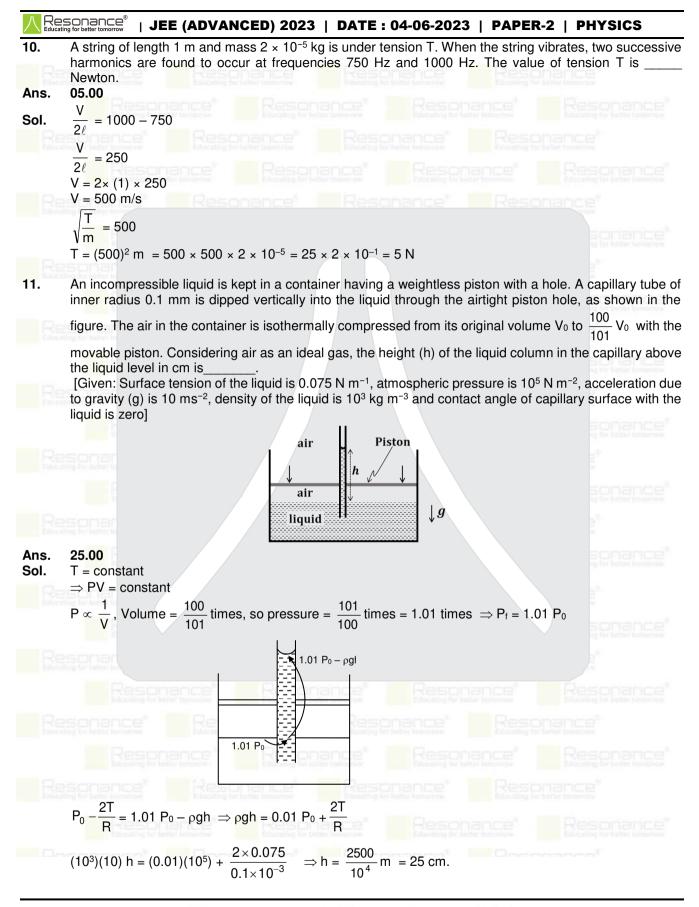
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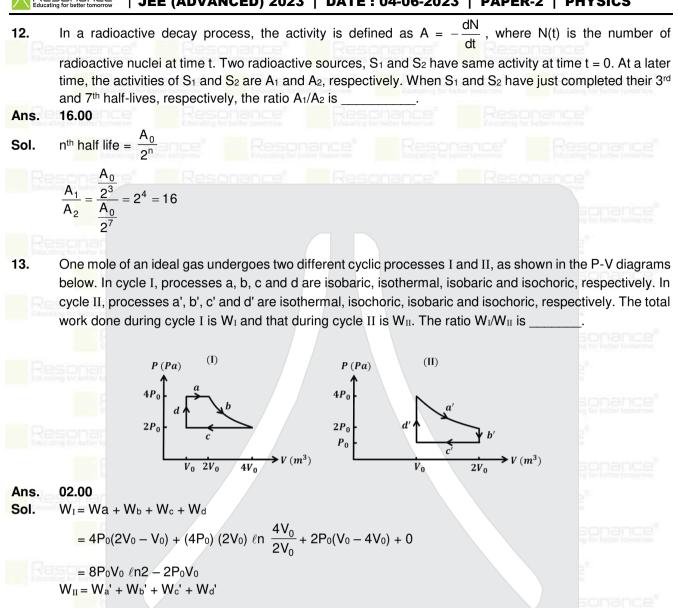
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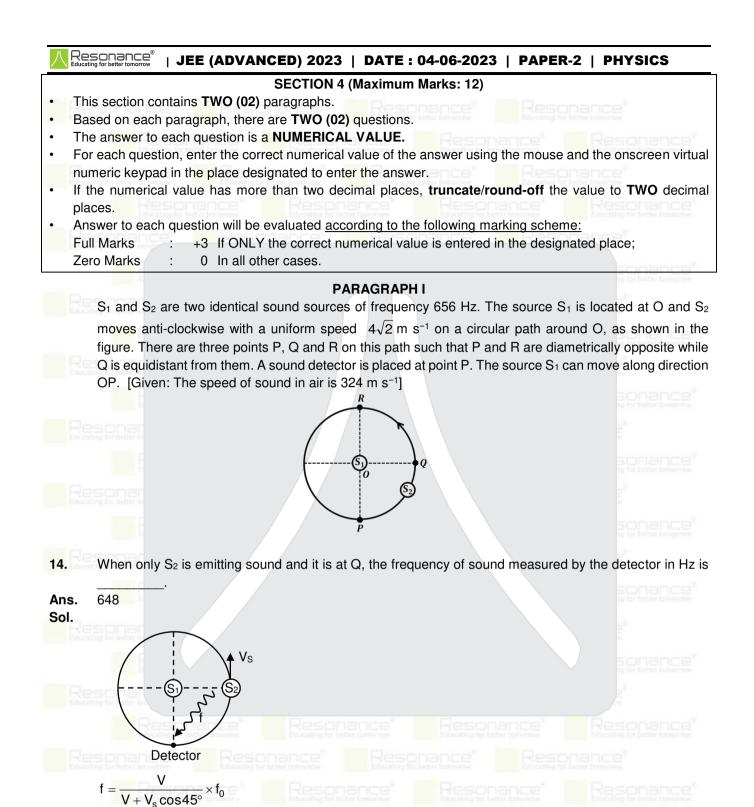
 $\frac{w_1}{w_1} = \frac{4p_0v_0 + 8p_0v_0 \ell n 2 - 6p_0v_0}{4p_0v_0 \ell n 2 - 6p_0v_0}$

$4p_0v_0\ln 2 - p_0v_0$ W₂ $=\frac{8p_0v_0\ell n2 - 2p_0v_0}{4p_0v_0\ell n2 - p_0v_0} = \frac{2(4\ell n2 - 1)}{(4\ell n2 - 1)} = 2$

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4 m s⁻¹, the beat frequency measured by the detector is Hz.

 $f = \frac{324}{324 + 4} \times 656 = 648$

15.

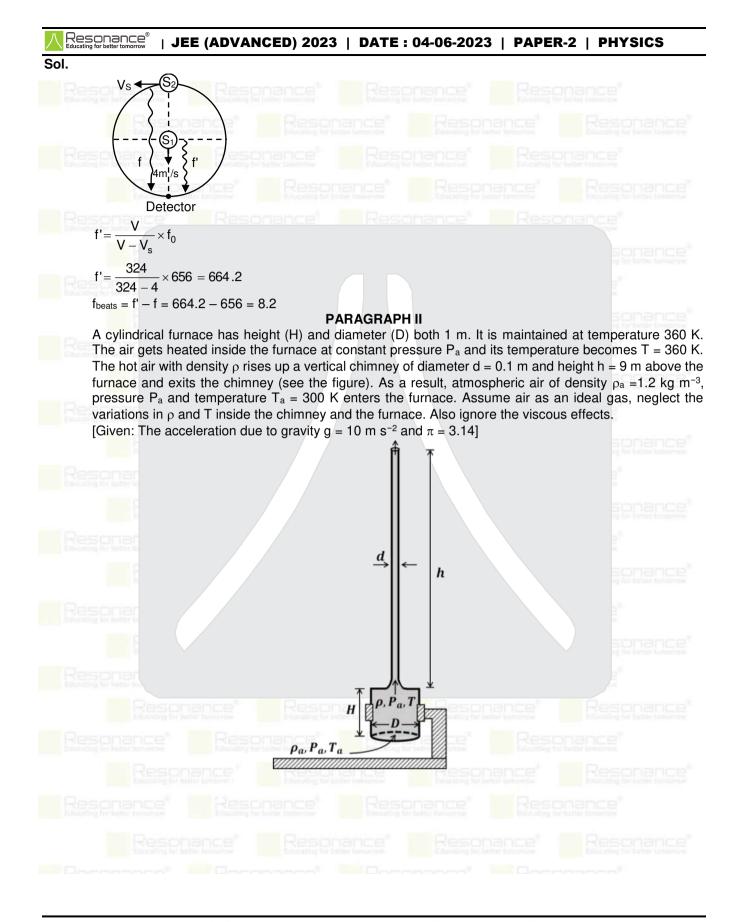
Ans.

8.2

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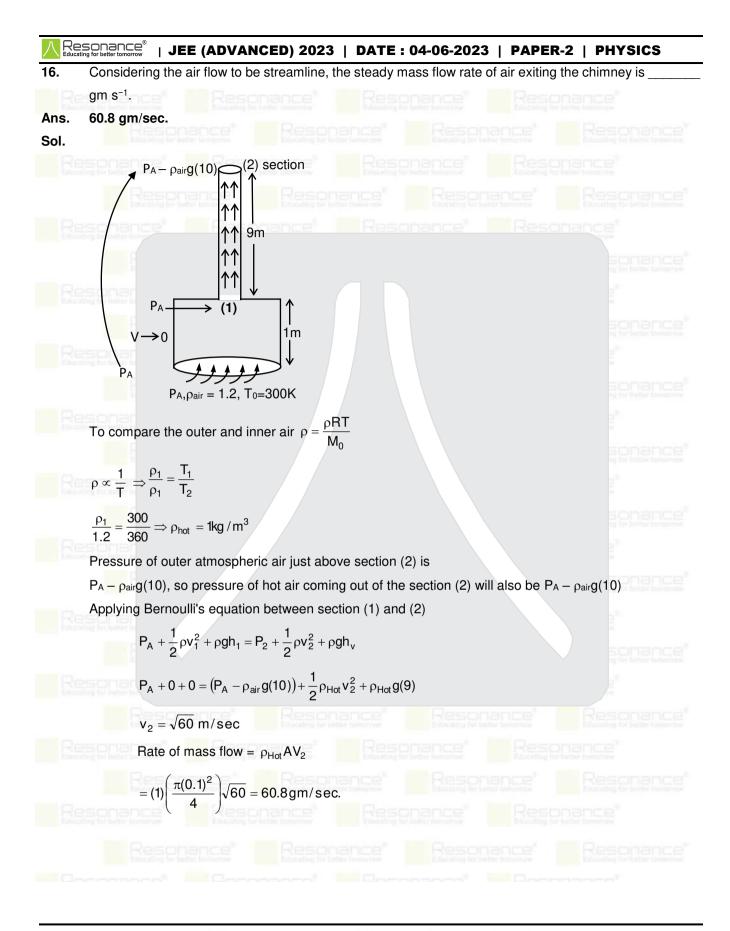
Consider both sources emitting sound. When S₂ is at R and S₁ approaches the detector with a speed

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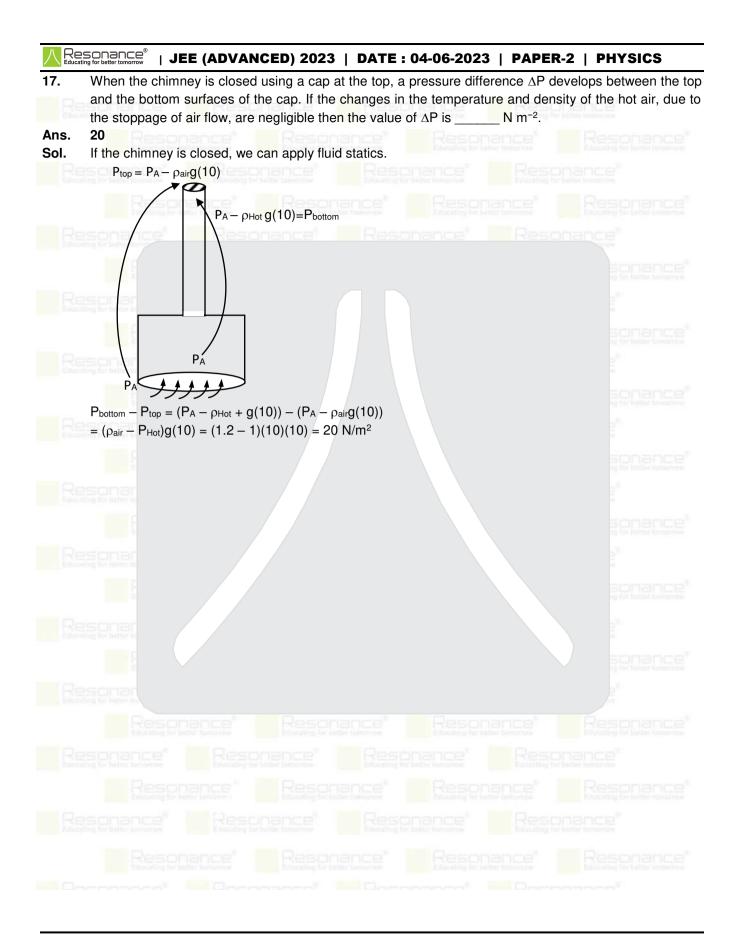
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