PAPER SOLUTION

From Meerut

JEE MAIN 2026

JAN	SHIFT
22	2nd

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JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Find the dimensions of the expression $\frac{\varepsilon_0 E}{T}$, where ε_0, E and T are permittivity, electric field and time.

A AL

B MLA^2

C $MA^{-1}L$

D AL^{-2}

(Ans : D)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. In an open organ pipe 3rd and 6th harmonic frequency differ by 3200 Hz. Find the length of organ pipe (speed of sound = 320 m/s)

A 5 cm

B 10 cm

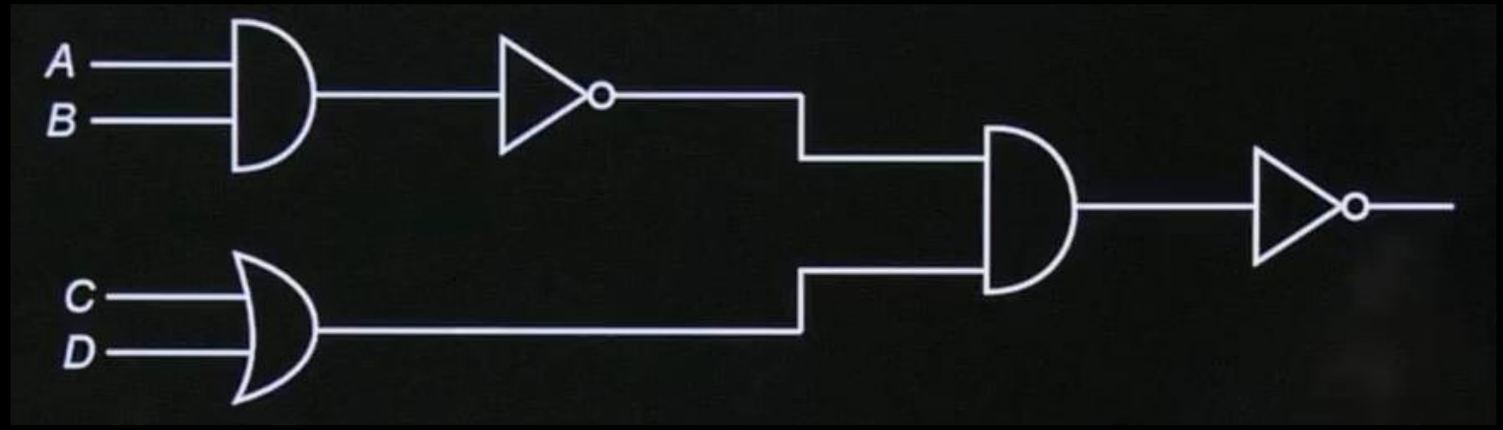
C 15 cm

D 20 cm

(Ans : C)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. For the given logic gate find output function.



(A) $\overline{A} \cdot \overline{B} + C + D$

(B) $\overline{A} + \overline{B} + \overline{C} \cdot \overline{D}$

(C) $AB + CD$

(D) $AB + \overline{C} \cdot \overline{D}$

(Ans : D)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. 3 small identical bubbles of water having same charge on each coalesce to forma biggen bubbe. Then the ratio of the potentials on one initial bubble & that on the resultant bigger bubble is:

A $1 : 3^{2/3}$

B $3^{2/3} : 1$

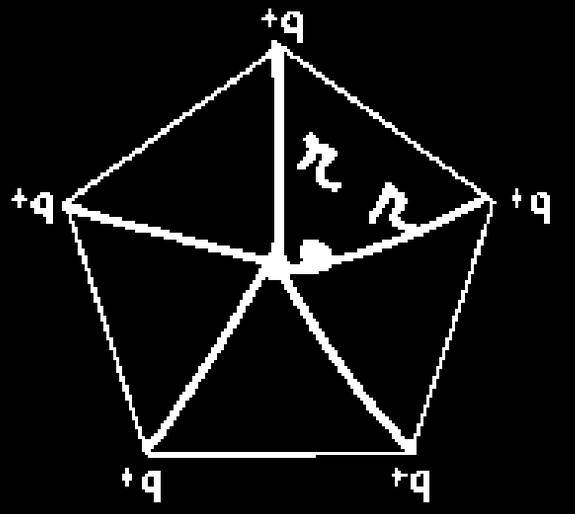
C $1 : 2^{2/3}$

D $1 : 3^{1/3}$

(Ans : B)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Five positive charges each having charge q are placed at the vertices of a pentagon as shown in the figure. The electric potential (V) & the electric field ($\vec{E}$) at the center O of the pentagon due to the 5 positive charges are:-



A $V = 0, E = 0$

B $V = \frac{5q}{4\pi\varepsilon_0 r}, E = \frac{5q}{4\pi\varepsilon_0 r^2}$

C c) $V = \frac{5a}{4\pi\varepsilon_0 r} \vec{E} = 0$

D $V = \frac{5q}{4\pi\varepsilon_0 r}$

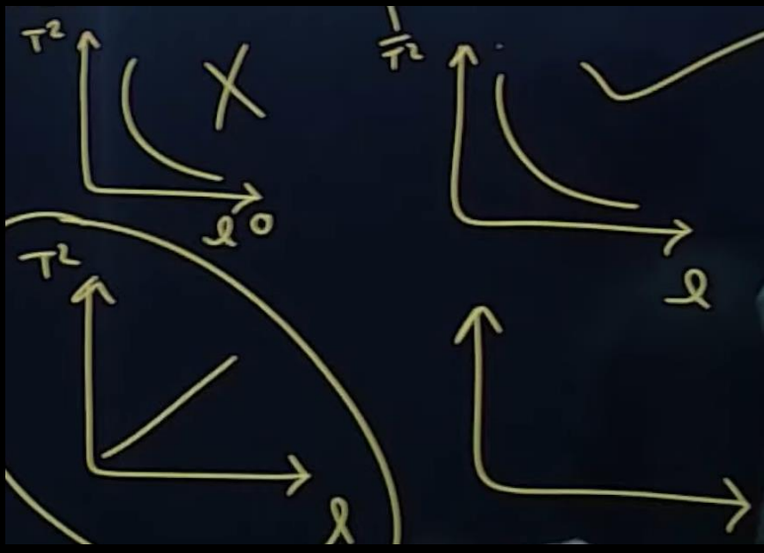
$E = \frac{5\sqrt{3}q}{8\pi\varepsilon_0 r^2}\hat{r}$

(Ans : C)

JEE MAIN 2026 LIVE PAPER DISCUSSION

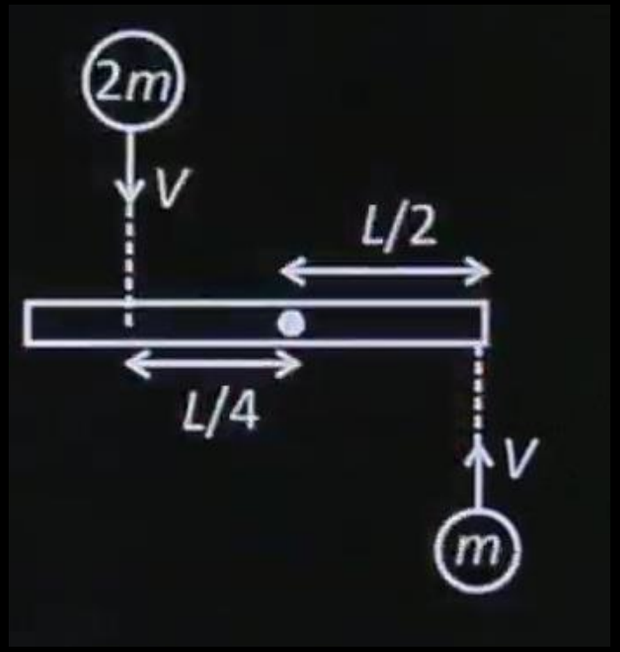
#Q. Using a simple pendulum experiment g is determined by measuring its time period T. Which of the following plots represent correct relation b/w the pendulum length l & time period T.

(Ans :)



JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Two balls of mass 2m and m collides with rod of mass m and length L as shown balls stick tot the rod after collision. Find $\frac{V}{\omega}$ if rod is hinged at centre. (L = 8m)



A 11/2

B 11/3

C 11/4

D 9/4

(Ans : B)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. A gas undergoes a process in which state variable changes from (1 atm, 60ml, 27°C) to (P atm, 30 ml, 77°C) then P is:

A $3\ atm$

B $5/4\ atm$

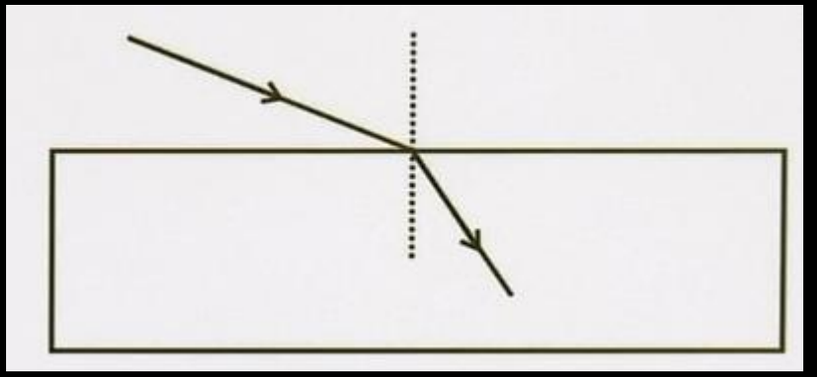
C $7/3\ atm$

D $4/3\ atm$

(Ans : C)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. A light ray incident on a slab of refractive index 3/2. If wavelength of refracted ray is 520 nm. Find wavelength of incident ray.



A $780\ nm$

B $560\ nm$

C $460\ nm$

D $360\ nm$

(Ans : A)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Which of the following is/are true for YDSE experiment?

i. Fringe width increases if slit width is constant & wavelength increased

ii. Fringe width increases if slit width is constant & wavelength decreased

iii. Fringe width increases if slit width is increased & wavelength constant

iv,. Fringe width increases if slit width is decreased & wavelength constant.

A i, iii

B i, iv

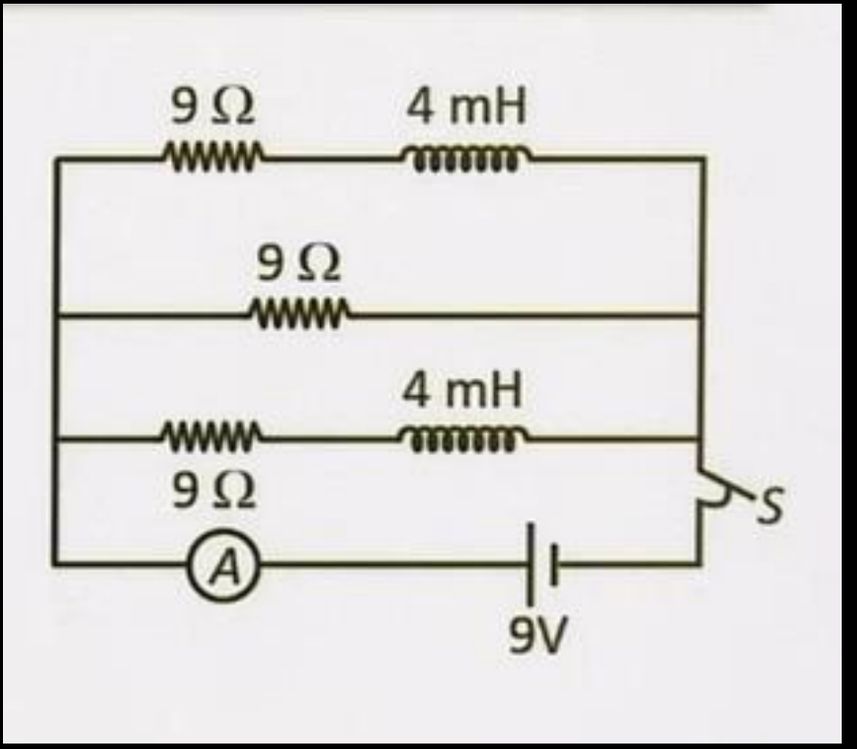
C ii, iii

D ii, iv

(Ans : B)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. For the given circuit, find reading of ammeter just after key(s) is closed.



(A) 3A

(B) 1/2 A

(C) 1 A

(D) 3/2 A

(Ans : C)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. A laser beam has intensity of $4.0 \times 10^{14}\ w/m^2$. The amplitude of magnetic field associated with. Beam is _____T.

A 1.83

B 5.5

C 18.3

D 2.0

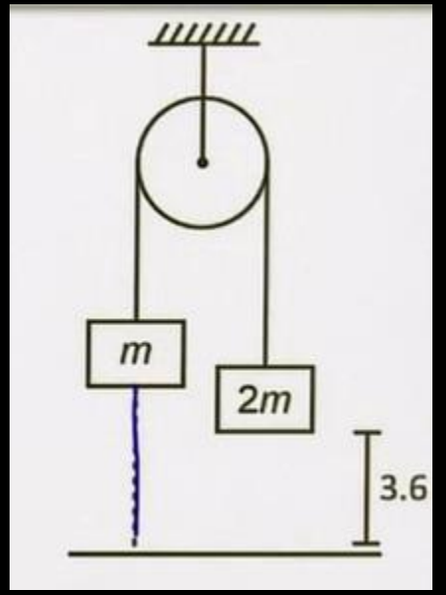
(Ans : A)

#Q. The smallest wavelength of Lyman series is λ_0. The difference between the largest wavelength of Paschen and Balmer series is nearly.

(Ans : NOT)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. If the string connecting m and ground is cut find the speed (approx..) with which 2m block hits the ground as shown. ($g = 10\ m/s^2$)



(A) 4 m/s

(B) $6\sqrt{2}$ m/s

(C) 3 m/s

(D) $2\sqrt{6}$ m/s

(Ans : D)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. In hydrogen type atom, shortest wavelength in Lyman series is given as 91 nm. Then longest wavelength in Paschen series of this atom shall be.

A. 31.82 nm

B. 1.87 μm

C. 113.3 nm

D. 2.31 μm

(Ans : B)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Statement-1: Kinetic energy of system $= \frac{1}{2}m_1v_1^2 + \frac{1}{2}m_2v_2^2 \ldots \frac{1}{2}m_nv_n^2$.

Statement-2: Kinetic energy of system = Kinetic energy of center of mass + kinetic energy with respect to center of mass.

A Statement I is true Statement II is true

B Statement I is true Statement II is false

C Statement I is false Statement II is true

D Statement I is false Statement II is false

(Ans : A)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Find the percentage change in height risen by liquid if density of fluid, radius of capillary and surface tension of liquid are decreased by 1%. Assume contact angle doesn't change and capillary is of sufficient length.

A +1%

B -1%

C +3%

D -3%

(Ans : A)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. A capacitor of capacitance 10 μF is connected with a battery 6 V. Now battery is disconnected and another uncharged capacitor of capacitance 20 μF is connected to the capacitor. Find charge on 20 μF capacitor.

A 30/4 μC

B 10 μC

C 20/3 μC

D 40 μC

(Ans : D)