PAPER SOLUTION

From Meerut

JEE MAIN 2026

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23	2nd

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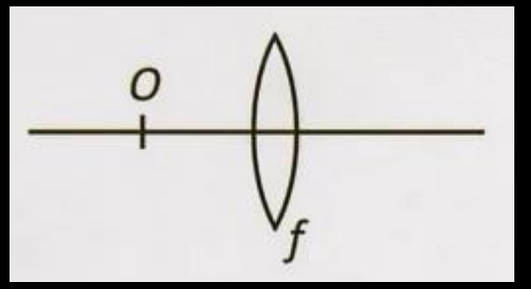
JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. When an object is kept at distance 8 cm and 24 cm from a convex lens magnitude of magnification is same in both cases. Find focal length of the lens.



A 32 cm

B 8 cm

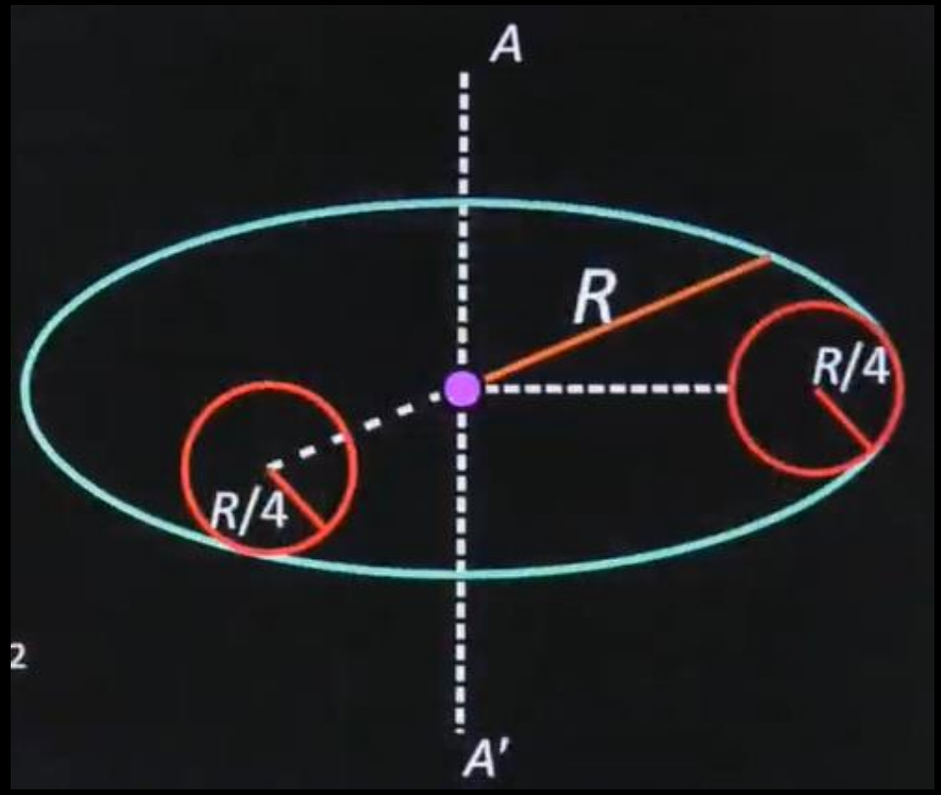
C 24 cm

D 16 cm

Ans. (D)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. From a uniform disc of radius R and Mass M two small discs of radius R/4 is being cut as shown in figure. Find the moment of inertia of the system about axis AA'.



(A) $\frac{79}{128}MR^2$

(B) $\frac{79}{2568}MR^2$

(C) $\frac{109}{256}MR^2$

(D) $\frac{109}{128}MR^2$

Ans. (C)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. A parallel plate capacitor with plate separation 5mm is Charged by a battery. On introducing a mica sheet of 2 mm and maintaining the connections of the plates with the terminals of the battery, it is found that it draws 25% more charge from the battery. The dielectric constant of mica is __

A 1.0

B 2.0

C 1.5

D 2.5

Ans. (B)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. When an unpolarized light falls at a particular angle on a glass plate (placed in air). It is observed that reflected beam is completely polarized the angle of refracted beam with respect to the normal is ___

$tan^{-1}(1.52) = 57.3^0$, ''refractive index of air and glass 1.00 and 1.52

A 57.3

B 32.7

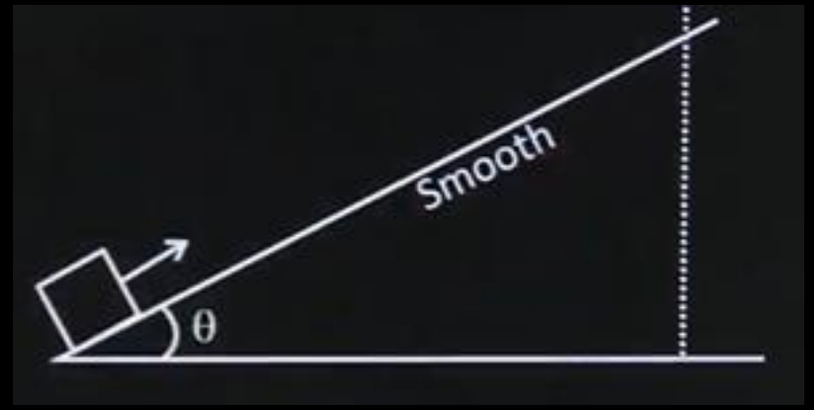
C 30

D 60

Ans. (B)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. A body is projected up the smooth incline plane having angle of inclination θ with the horizontal as shown in the figure. Find the distance covered before stopping



(A) $\frac{u^2}{2g\cos\theta}$

(B) $\frac{u^2}{2g}$

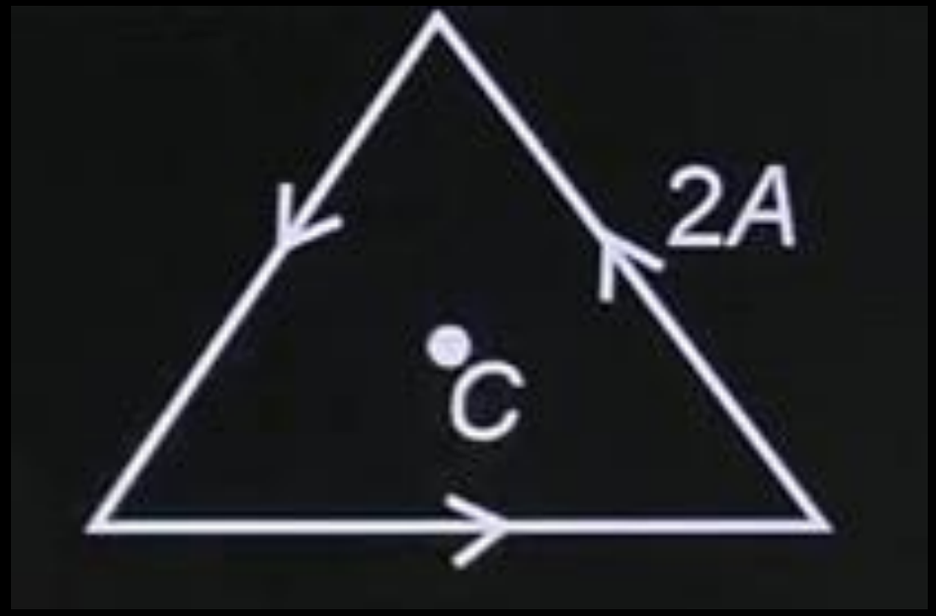
(C) $\frac{u^2}{2g\sin\theta}$

(D) $\frac{u^2}{2g\,tans\,\theta}$

Ans. (C)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. In equilateral triangular frame, then is current of 2A. The side of frame is $4\sqrt{3}$ cm. Magnetic field at center C is



A $30\sqrt{3}\ \mu T$

B $10\sqrt{3}\ \mu T$

C $3\sqrt{10}\ \mu T$

D $10\sqrt{10}\ \mu T$

Ans. (A)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. A prism of angle 75° and refractive index $\sqrt{3}$ is coated with thin film of refractive index 1.5 only at the back exit surface. To get total internal reflection (T/R) at the back exit surface, the incident angle must be _____
(sin 15° = 0.25, sin 25° = 0.43)

A $\angle 15°$

B $15°$

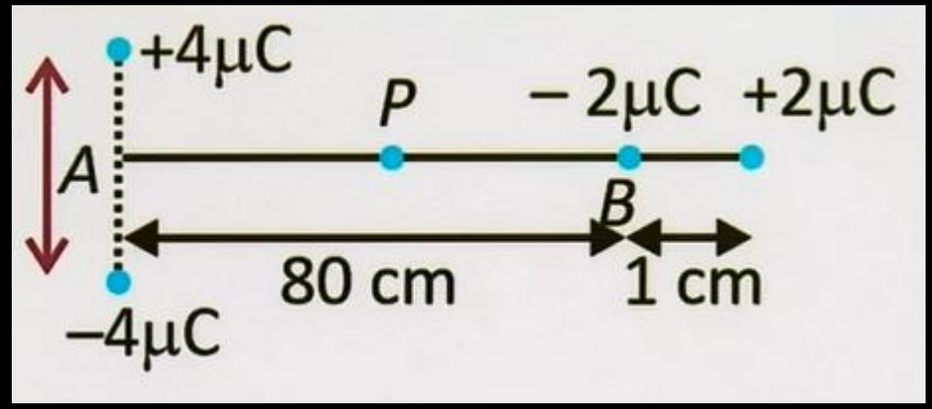
C $> 25°$

D $b/w 15°$ and 20°

Ans. (C)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Four chargers are kept as shown in the figure. Find magnitude of electric field at point P. P is mid-point of line AB.



(A) 180 kV/m

(B) 270 kV/m

(C) $\frac{45\sqrt{5}}{8}$ kV/m

(D) $60\sqrt{3}$ kV/m

Ans. (C)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. One mole of diatomic gas is expanding isothermally from V to 2V at 27°C. If the magnitude of work done by the gas in this case is same as the work done in adiabatic process where initial temperature is 27°C and final temperature is T℃. Find the value of T.

A -37 ℃

B –57 ℃

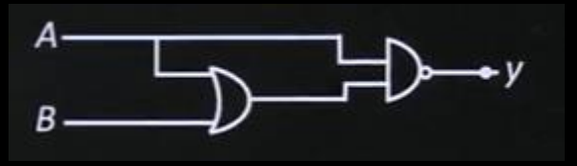
C –35 ℃

D 0 ℃

Ans. (B)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Find the truth table for the given circuit.



A

A	B	Y
0	0	1
0	1	1
1	0	0
1	1	0

B

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

C

A	B	Y
0	0	1
0	1	0
1	0	1
1	1	0

D

A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Ans. (A)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. An air bubble is moving upward from the bottom of lake having temperature 17^0C. At the top the temperature of lake (and bubble) is 27^0C. Assume no significant charge in the density of the lake water upto its depth of 5m find the ratio off volume at top to bottom of the bubble.

A 1.25

B 1.75

C 1.55

D 1.85

Ans. (C)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. A metallic sphere of diameter 2 mm and density 10.5 g/cm^3 is dropped in glycerin having viscosity 10 poise and density 1.5 g/cm^3.
The terminal velocity attained by the sphere is ____ cm/s.
$\pi = \frac{22}{7}, g = 10\ m/s^2$

A 2.0

B 1.0

C 1.5

D 3.0

Ans. (A)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. EMF of two cells are measured using potentiometer method. If the balance lengths are 200 cm and 150 cm respectively. If the least count is 1 cm then find % error in calculating $\frac{E_1}{E_2}$

A 1.2%

B 1.16%

C 0.50%

D 0.75%

Ans. (B)

JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. A man jump from a plane, after 2 seconds he open parasuits due to which if he retarded with 3 m/s^2 When the man is at 10 m height from ground its speed is 5 m/s. Find height of the plane when he jumped.

(A) 92.5 m

(B) 90 m

(C) 85 m

(D) 0.75 %

Ans. (A)

JEE MAIN 2026 LIVE PAPER DISCUSSION

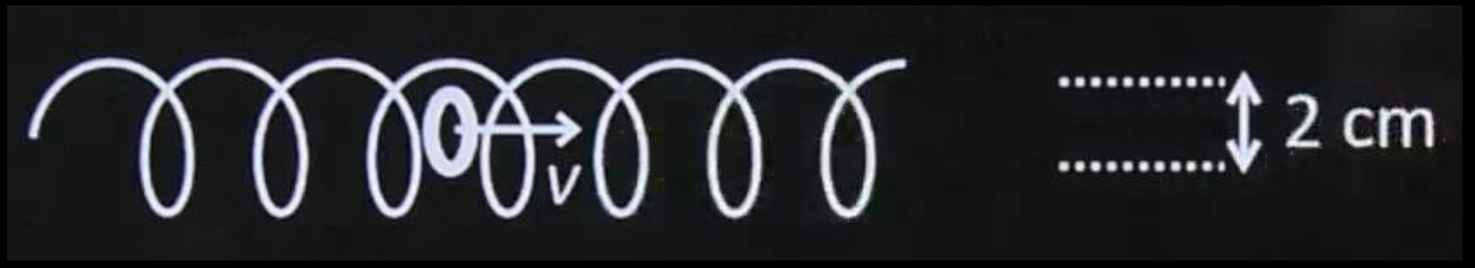
#Q. In a long solenoid of cross-section radius of 2 cm and of 500/cm turns density. A ring moves with constant speed 10 cm/s with axis coinciding with a axes of solenoid. The radius and resistance of ring is 1 cm and 10 Ω. Find heat dissipated in ring while it transverse 10 cm of distance. The current

A $300\ \mu J$

B $200\ \mu J$

C $700\ \mu J$

D $850\ \mu J$



Ans. (B)