

## Answer & Solutions

for

## NEET 2022

### Physics

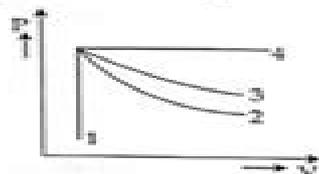
1. The dimensions  $[MLT^{-2}A^{-2}]$  belong to the:

- (1) magnetic permeability
- (2) electric permittivity
- (3) magnetic flux
- (4) self inductance

Sol. Answer (1)

$$\frac{F}{L} = \frac{\mu_0 I_1 I_2}{2\pi r} \Rightarrow [\mu_0] = [MLT^{-2}A^{-2}]$$

2. An ideal gas undergoes four different processes from the same initial state as shown in the figure below. Those processes are adiabatic, isothermal, isobaric and isochoric. The curve which represents the adiabatic process among 1, 2, 3 and 4 is:



- (1) 3
- (2) 4
- (3) 1
- (4) 2

Sol. Answer (4)



3. A biconvex lens has radii of curvature, 20 cm each. If the refractive index of the material of the lens is 1.5, the power of the lens is:

- (1) +5D
- (2) infinity
- (3) +2D
- (4) +20 D

Sol. Answer (1)

$$P = \frac{1}{F} \quad (F \text{ in meter})$$

$$\frac{1}{F} = (1.5 - 1) \left( \frac{1}{20} + \frac{1}{20} \right) = + \frac{0.5}{10} = \frac{1}{20}$$

$$P = \frac{100}{20} = +5D$$

4. The ratio of the radius of gyration of a thin uniform disc about an axis passing through its centre and normal to its plane to the radius of gyration of the disc about its diameter is

- (1) 4 : 1
- (2) 1 :  $\sqrt{2}$
- (3) 2 : 1
- (4)  $\sqrt{2} : 1$

Sol. Answer (4)

$$I_{\text{centre}} = \frac{MR^2}{2} \Rightarrow K_1 = \frac{R}{\sqrt{2}}$$

$$I_{\text{diameter}} = \frac{MR^2}{4} \Rightarrow K_2 = \frac{R}{2}$$

$$\text{Ratio } \frac{K_1}{K_2} = \frac{R/\sqrt{2}}{R/2} = \frac{\sqrt{2}}{1}$$

5. The angle between the electric lines of force and the equipotential surface is:

- (1)  $90^\circ$
- (2)  $180^\circ$
- (3)  $0^\circ$
- (4)  $45^\circ$

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