

Physics - (P-I)JUNE
2019

Note : 1) All question are compulsory.

2) Figures to the right indicate full marks.

3) Use of scientific calculator is allowed.

Q. 1) Attempt any TWO of the following.

(8)

- (a). A block slides down an incline of angle 30° with an acceleration of $0.3g$. Find the coefficient of kinetic friction.
- (b). Define the terms stress and strain.
- (c). Explain viscosity and viscous drag in fluids.
- (d). An isotropic homogeneous material prove that $Y = 2\eta (1 + \sigma)$

Q. 2) Attempt any TWO of the following.

(10)

- (a). Prove that for the perfect gas $C_p - C_v = R$; where C_p and C_v are molar specific heats of a gas.
- (b). State and explain zeroth law of thermodynamics.
- (c). What are the types of optical fibre? Explain one of them.
- (d). When some quantity of an ideal gas at NTP is compressed adiabatically its volume reduces to one fourth of its original calculate final pressure and temperature. ($\gamma = 1.4$)

Q. 3) Attempt any TWO of the following.

(10)

- (a). Explain the detection of ultrasonic waves using Kundt's tube.
- (b). Obtain the general solution of wave equation $\frac{\partial^2 y}{\partial x^2} = \frac{1}{c^2} \frac{\partial^2 y}{\partial t^2}$
- (c). What are the essential features of good acoustics?
- (d). Calculate the frequency of the fundamental note emitted by piezoelectric crystal.
Vibrating length = 3 mm, $Y = 8 \times 10^{10} \text{ N/m}^2$, $\rho = 2.5 \text{ gm/cc}$.

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Fybsc Physics Syllabus Mumbai University:

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