

- NOTE:** 1. All questions are compulsory and carry equal marks. *June 2014*
2. Figures to the right indicate full marks.
3. use of scientific calculator is allowed.

**Q. 1) A) Attempt any one of the following.**

[7]

1. What do you mean by Poisson's ratio? Show that (a)  $\frac{\sigma}{\epsilon} = \frac{1}{K} + \frac{3}{\eta}$

(b)  $\sigma = \frac{3K - 2\eta}{6K + 2\eta}$

2. With necessary diagram obtain Bernoulli's equation.

**B) Attempt any ONE of the following.**

[3]

1. A bullet of mass 10 gm is fired horizontally and remains imbedded in a mass 2 Kg suspended by a long string. The first swing after the impact raises the centre of gravity of combined mass through a height of 15 cm. Calculate the velocity of bullet.
2. A block slides down an incline plane of angle  $30^\circ$  with an acceleration of  $0.3g$ . Find the coefficient of Kinetic friction, if  $\sin 30^\circ = 0.5$  and  $\cos 30^\circ = 0.866$ .

**Q. 2) A) Attempt any ONE of the following.**

[7]

1. Discuss the concept of internal energy. Obtain the first law of thermodynamics and discuss the path dependence of heat.
2. What do you mean by specific heats of perfect gas. Obtain the equation showing Mayer's relation.

**B) Attempt any ONE of the following.**

[3]

1. 1 Kg water at 1 atm pressure has a volume of  $10^{-3} \text{ m}^3$  and it becomes a  $1671 \times 10^{-3} \text{ m}^3$  of steam when boiled. If the latent heat of the vaporisation is 540 Kcal/Kg calculate the work done by its internal energy.
2. An ideal gas at 2 atm and  $27^\circ \text{C}$  is compressed adiabatically to 1 atm pressure. Calculate the resulting temperature. (Take  $\gamma = 1.4$ )

**Q. 3) A) Attempt any ONE of the following.**

[7]

1. Show that the velocity propagation of a longitudinal wave through rod depends upon Young's modulus and density of rod.

# Fybsc Physics Syllabus Mumbai University

**JE Gale**



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