

**[4119] - 2**  
**F.Y. B.Sc. (Biotechnology)**  
**PHYSICS**  
**Bb - 102 : Fundamentals of Physics**  
**(44020) (2008 Pattern)**

*Time : 3 Hours]**[Max. Marks : 80**Instructions to the candidates:-*

- 1) All questions are compulsory.
- 2) Answers should be specific and to the point.
- 3) Figures to the right indicate full marks.
- 4) Use of calculator is allowed.

**Q1)** Answer the following questions :**[16]**

- a) Why Kelvin is called as thermodynamic temperature scale?
- b) State Newton's law of viscosity.
- c) Define angle of contact.
- d) State Brewster's law.
- e) Give relationship between Celcius & Fahrenhiet scale.
- f) What is the change in the internal energy per gram of air if 12 gm of air is heated from 0°C to 5°C at constant volume by adding 120 calories of heat?
- g) Explain Fresnel diffraction.
- h) The maximum value of the permeability of some metal is 0.130 T-m/A. Find the value of relative permeability and susceptibility.  
Given :  $\mu_0 = 4\pi \times 10^{-7}$  T-m/A.

**Q2)** Attempt any four :**[16]**

- a) Define standard units for current and temperature.
- b) Show that the relationship between Young's modulus, bulk modulus and Poisson's ratio is  $Y = 3K(1 - 2\sigma)$ .

# Physics Paper Fybsc Pune University

**Lei Shi**



**Physics Paper Fybsc Pune University:**

## **Physics Paper Fybsc Pune University** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Physics Paper Fybsc Pune University**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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