

Karnataka  
Physics- 2016

**General Instructions:**

- 1) All the parts are compulsory.
- 2) Answer without relevant diagram /figure/circuit wherever necessary will not carry any marks.
- 3) Direct answers to numerical problems without detailed solutions will not carry any marks.

**PART-A**

**I. Answer all the following question:**

1. State Faraday's law of electromagnetic induction.

Sol: The magnitude of the induced e.m.f. in a circuit is equal to the time rate of change of magnetic flux through the circuit.

2. Write an expression for the displacement current.

Sol:  $I_D = \epsilon_0 \frac{d\phi_E}{dt}$

3. What is an electric dipole?

Sol: An electric dipole is a pair of two equal and opposite charges separated by a small distance.

4. Draw the circuit symbol of p-n-p transistor.

Sol:



5. How can the resolving power of a telescope be increased?

Sol: By increasing the diameter of the objective. R.P  $\propto$  diameter of Objective.

6. In the following nuclear reaction, Identify the particle X:



Sol: Antineutrino or  $\bar{\nu}$

# Karnataka Puc 1 Blow Up Physics Syllabus

**CO Houle**



## **Karnataka Puc 1 Blow Up Physics Syllabus:**

## **Karnataka Puc 1 Blow Up Physics Syllabus** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Karnataka Puc 1 Blow Up Physics Syllabus**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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## Karnataka Puc 1 Blow Up Physics Syllabus Introduction

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