



**SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES**

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## **PHYSICAL PHARMACEUTICS I**

### **QUESTION BANK - UNIT WISE**

#### **UNIT-II**

##### **States of Matter and physicochemical properties of drug molecules**

##### **10 Marks**

1. Write the principles and constructions behind Abbe's refractometer.
2. Define optical rotation. Write the principles and constructions behind polarimetry.

##### **5 Marks**

1. Liquid crystalline state and super critical fluids.
2. Dipole moment and its significance.
3. Vapour pressure and liquid crystals.
4. Principles behind the working of aerosols.
5. Difference between amorphous and crystalline solids.
6. Define the term sublimation and boiling point.
7. Define eutectic point. Give the examples.

##### **2 Marks**

1. State polymorphism and its applications.
2. State Dielectric constant.
3. Short notes on glassy state.
4. Define refractive index and specific refraction.
5. Latent heats.(also explain heat of fusion and heat of vaporization)
6. Dissociation constant and its applications.