

**FORMAT (MODEL) FOR SYNOPSIS  
PREPARATION**

<TYPE YOUR TITLE HERE>

A SYNOPSIS

*Submitted by*

<NAME INITIAL>

<REG.NO>

<DISCIPLINE>

*in partial fulfillment of the requirements for the award of degree of*

**DOCTOR OF PHILOSOPHY**



**MANONMANIAM SUNDARANAR UNIVERSITY  
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<MONTH & YEAR OF SUBMISSION >

## **SYNOPSIS MODEL**

### **PREFACE**

This chapter emphasize the significance and characterization of liquid mixtures using ultrasonic method. A brief review of literature pertaining to the present work is also presented.

### **PROBLEM STATEMENT**

A liquid possesses neither the rigidity of a solid nor the fluidity of a gas and so it exhibits properties intermediate to both the states. (Temperly and Trevena 1978) produced definite *evidence* that liquids can withstand tensions of at least tens of atmospheres. Thus, forces between molecules are attractive at large distances and a liquid resists changes of density and cannot resist changes of shape.

### **INTRODUCTION**

Matter exists in three different forms which are solid, liquid and gas. The most striking difference between a liquid and solid is that a liquid does not permanently resist the forces tending to change its shape. A liquid possesses neither the rigidity of a solid nor the fluidity of a gas and so it exhibits properties intermediate to both the states. (Temperly and Trevena 1978) produced definite *evidence* that liquids can withstand tensions of at

least tens of atmospheres. Thus, forces between molecules are attractive at large distances and a liquid resists changes of density and cannot resist changes of shape.

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### **Theories of Liquid State**

A number of theories of the liquid state are based on the concept of lattice structure in a liquid. A liquid may be considered as a disordered solid. Liquids are sometimes classified like crystals based on the kind of cohesive forces that hold them together. Ionic liquids consist of ions and electrons. Water molecules are held together by Hydrogen bonds. In many molecular liquids,

### **REVIEW OF LITERATURE**

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## METHODOLOGY

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### **Summary**

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