CONTENTS

ACKNOWEDGEMENT i - ii

LIST OF ABBREVATIONS iii

CHAPTER 1

INTRODUCTION 1 - 24

CHAPTER 2

MATERIALS AND METHODS 25 - 40

CHAPTER 3

Temporal Variations in the Community Structure of Phytoplankton: Influence of Dissolved Nutrients. 41 - 83

CHAPTER 4

Ordination of Zooplankton Community Data: Trends in the Community Structure of Marine Zooplankton at Saurashtra. 84 - 135

CHAPTER 5

Impact of Petroleum Hydrocarbons on the Community Structure of Plankton in the coastal waters of Saurashtra. 136 - 157

GENERAL CONSIDERATIONS 158 - 173

BIBILOGRAPHY 174 - 195