CONTENTS

Acknowledgement ... ... i - ii
Preface ... ... iii - vi
List of Tables ... ... vii - xi
List of Figures ... ... xii - xvi
List of Plates ... ... xvii

CHAPTER

I. INTRODUCTION ... ... 1 - 11
Introduction - Location and area - Physical make-up - References

II. PLACE OF AGRICULTURE IN THE ECONOMY OF THE DISTRICT ... ... 12-25
Introduction - Agriculture the most predominant occupation - Land use - Crops - Yield of the crops - The distribution of workers in agriculture - Population density - Remarks - References.

III. DRAINAGE SYSTEM AND AGRICULTURE: ... ... 26-49
Introduction - The Hooghly - The Damodar - The Dwarakeswar - The Rupnarayan - The Saraswati - Bali Khal - Lakes and marshes - Drainage - Relation between drainage and agriculture - Drainage and settlement - Hydrological condition of the land and the crop pattern - References.
IV. CLIMATE AND AGRICULTURE

Introduction - General character - Wind and airmass - Temperature - Relative humidity - Rainfall - Sunshine and cloudiness - Relation between climatic season and cropping season - An ideal rice climate - Aus or Bhadoi - Aman or Aghani - Rabi or Chaitali - Duration of dry and wet period - Variation of rainfall and production fluctuation - Remarks - References.

V. SOIL AND AGRICULTURE

Introduction - General Characteristics of soil - Profile character - Physico-chemical characteristics of the soil organic matter; soil texture; soil reaction - Fertility status: soil nitrogen; phosphorus; potassium - Dependence of yield of crop on the physico-chemical properties of soil: The soil reaction and yield; organic matter and yield; nitrogen and yield; phosphorus and yield; potassium and yield; soil texture and yield - Classification of land according to productive capacity of soil - Remarks - References.

VI. IRRIGATION

Introduction - Facilities and resources of irrigation - Sources of irrigation: canal
irrigation; shallow and deep tubewell irrigation; river lift irrigation; tank irrigation - Spatial variation in intensity of irrigation - Relative increase in the net area irrigated - Relative change in intensity of irrigation - Correlation between, net area irrigated and cropped area - Remark - References

VII. LAND UTILISATION

Introduction - General landuse - Spatial variation - Gross cropped area - Extension of cultivation vs multiple cropping - Pressure of population vs intensity of cropping - Intensity of cropping: double cropped area; triple cropped area - Correlation between population pressure and intensity of cropping - Diversification of cropping: methodology; temporal variation in crop diversity; spatial variation in crop diversity - Remarks - References.

VIII. CROPPING PATTERN

Introduction - Chief Crops - Rice: aus; aman; boro - Jute - Potato - Oilseed - Vegetables - Wheat - Pulses - Sugarcane - Orchard crops: banana; mango; papaya; betel leaf; cocoanut -
Crop combination regions; methodological consideration; arbitrary choice method; minimum deviation method; maximum positive deviation method; Spearman's rank correlation coefficient method - Remarks - References.

IX. YIELD AND PRODUCTION OF CROPS...

Introduction - Temporal changes in yield and production: rice; aus paddy; aman paddy; boro paddy; wheat; jute; potato - Spatial variation in yield and production; total rice; aus; aman; boro; wheat; potato; jute - Remarks - References.

X. AGRICULTURAL PRODUCTIVITY REGIONS...

Introduction - Methodology - Productivity regions - Remarks - References.

XI. NEW AGRICULTURAL STRATEGY...

Introduction - Green revolution in India - Evaluation of the new agricultural strategy - Effects of green revolution on agriculture in Hooghly: High yielding variety programme; Increased use of fertilizers; Plant protection measures; Multiple Cropping programme; Increased Irrigation facilities - Remarks - References.
XI. PROBLEMS AND SUGGESTIONS

Introduction - Problem of manure and fertilizers - Problems of implements and machinery - Problem of land holding - Problem of agricultural marketing - Problem of irrigation - Problem of seeds - Problem of labour - Conclusion - References.

BIBLIOGRAPHY

APPENDIX

Tables 1 - 40