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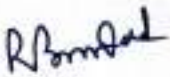
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Prepared and submitted by  
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**BOOK CHAPTER PUBLISHED (2020 – 2021)  
(RAJDEEP BORAH)**



## Operations on Picture Fuzzy Numbers and Their Application in Multi-criteria Group Decision Making Problems

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**Abstract.** Uncertainty is an unavoidable component of our life and fuzzy set theory (FST) is generally explored to deal with it. However, in some complex situations FST is not capable to play crucial role. In such situations Picture fuzzy set (PFS) come into the picture which is the direct extension of FST and Intuitionistic fuzzy set (IFS). Although different studies on FST and IFS have been done including their algebraic structure, however these studies are found to be inappropriate to deal with picture fuzzy situations. In this regard, this present paper presents the basic arithmetic operations on PFSs along with numerical examples. Finally application of PFSs in multi-criteria group decision making is performed through a case study.

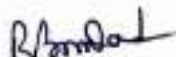
**Keywords:** Intuitionistic fuzzy set · Picture fuzzy set · Triangular picture fuzzy set

**Mathematics Subject Classification:** 03E72

### 1 Introduction

Fuzzy set theory (FST) was developed by Zadeh [1] in the year 1965 to deal with uncertain environment in solving various problems of real world. FST provides an appropriate framework for representing vague concepts by allowing partial membership. After that the intuitionistic fuzzy set (IFS) was proposed by Atanassov [2] in 1986. An IFS has the characteristics of fulfilling two functions expressing the degree of membership (belongingness) and the degree of non membership (non belongingness) of the elements of the universe to the IFS and the sum of these two degrees must not exceed one. It is encountered that one of the novel idea viz., degree of neutrality, is lacking in IFS. The idea of degree of neutrality can be observed in the environments where human intuitions are involved and need to answer of the types of situations certainly, refrain,

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RESEARCH PAPER PUBLISHED (2020 – 2021)  
(DIPTI TAMULI)

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## Status of Rural Women in Assam : A Sociological study on Bebejia Gaon Titabor Jorhat District

DIPTI TAMULI

Asst Professor, Deptt Sociology, Kakojan College, Jorhat

### ABSTRACT

Woman are integral part of the family and the society. The present study wants to analyze the change of women in their socio economic status after the end of british colonialism. As a result of spread of modern education women of rural areas have easy access to higher education and modern ideas. So this study aims to study how far socio-economic progress in independent India have reached this section of the society. The study is based on 100 respondents. As a result of lack of opportunity and social customs girl children were rarely sent to schools till the 60's decade in Assam. Women were confined within the four walls of the kitchen. They were married before they had attained the modern marriageable age. They were regarded as producer of children and helpers in household and agricultural activities. So educational level of the women was very low and illiteracy prevailed in most of the villages. Further the overall economic condition of the village people was remarkably low Orthodox mind setup, lack of scientific rationalism coupled with poor economic and social situations forced people of rural areas to live a life of under development

Key words :- Rural women, Change, Status.

### 1. INTRODUCTION:

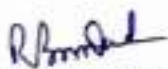
Women are the integral part of the family and the Society. In different stages of human history women have enjoyed a status high or low. But it is clear from the history of human civilisation that women have never enjoyed equal status with man. There is inequality in granting a respectable status to women in different stages of history. In India also during the ancient period women were respected but there was discrimination in granting status to women as an important organ of the society. If any women enjoyed

a top position in the social hierarchy it was because of certain circumstances and personal effort of that particular women. Such exceptions cannot be generalised. Therefore, since time of history women in general sense have been subjected to discrimination, exploitation and inequality.

The overall socio-economic status of women in India has been low. During the long years of British rule there spread modern education in India. But inspite of the efforts made by different social reformers, some evil customs predominated the Indian society

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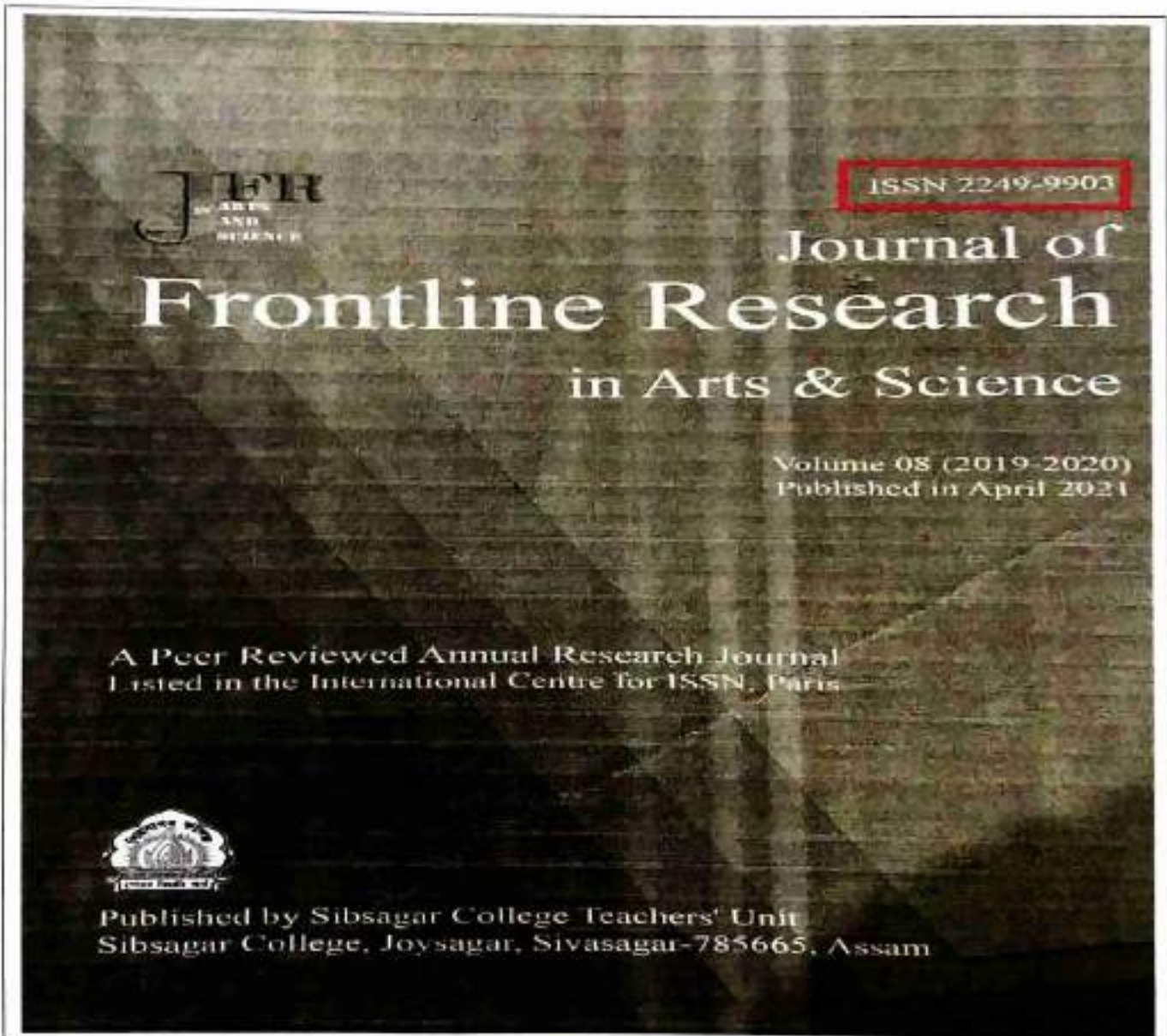
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**RESEARCH PAPER PUBLISHED (2020 – 2021)  
(JITA DUTTA)**



  
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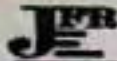
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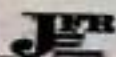
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## Numerical Investigation on Stagnation Point Flow Along a Vertical Stretching Sheet with Soret and Dufour Effects

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### Abstract

The current analysis is devoted to observing the influence of Soret and Dufour effects on MHD stagnation point flow along a vertical stretching sheet. Effects of variable viscosity and thermal conductivity are also considered in our study. The governing equations of flow are transformed into ordinary differential equations using similarity transformations and which are solved numerically by using Runge-Kutta fourth order scheme with shooting technique. The significant properties and effects of various physical parameters such as viscosity variation parameter, thermal conductivity variation parameter, Soret number, Dufour number, Hartmann number on velocity, temperature and species concentration distributions are presented through graphs.

**Keywords:** Soret and Dufour effects, variable viscosity, variable thermal conductivity, shooting technique.

### 1. Introduction

In the process in fluid flow induced by coupled heat and mass transfer, Soret and Dufour effects must not be neglected. Stagnation point flow is also relevant to the bodies in high speed flow. It is used to reduce drag, in designing of thrust bearings and transpiration cooling etc. Stagnation point flow was first analyzed by Hiemenz<sup>[1]</sup>. Hiemenz used similarity transformation to reduce the governing Navier-Stokes equation into ordinary differential equations of third order subject

to two point boundary conditions. Later many researches considered magnetic field, heat source/sink, suction/injection etc. to enhance the properties of fluids in stagnation point flow.

The boundary layer fluid flow with the occurrence of coupled heat and mass transfer have significant contributions in heat insulation, compact heat exchangers, paper production, drying technology and catalytic reactor<sup>[2]</sup>. The mass transfer created by the temperature gradient is called the Soret effect (thermo-diffusion).

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## RESEARCH PAPER PUBLISHED (2020 – 2021) (JITA DUTTA)

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Research Article

### Group Theory In Molecular Symmetry

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**ABSTRACT:** Symmetry is one of the most pervasive concepts in the universe. It is used in our everyday language in two meanings. In the one sense symmetry means something like well-proportioned, well-balanced and the other sense. Symmetry denotes the sort of concordance of several parts by which they integrate into a whole. The study of symmetry provides one of the most appealing applications of group theory. The systematic mathematical treatment of symmetry is called group theory. Group theory is a rich and powerful subject by which we shall confine our use of it at this stage classification of molecules in terms of their symmetry properties, the construction of molecular orbitals and the analysis of molecular vibrations. To make the idea of molecular symmetry as useful as possible we must develop some rigid mathematical criteria of symmetry. Group theory is the tool by means of which generalizations concerning molecular symmetry are applied. In the advanced study of inorganic chemistry a systematic study of symmetry and the ways of specifying it with mathematical precision are important because wide variety of symmetric structure encountered.

**Keywords:** Symmetry operations, symmetry elements, molecular symmetry, schonflies system, symmetry groups

### INTRODUCTION

Symmetry governs the physical and spectroscopic properties of molecules. Sets of symmetry operations constitute a mathematical group. Group theory is the mathematical application of symmetry to an object to obtain knowledge of its physical properties. By using the properties of groups, we can take advantage of molecular symmetry in a systematic way to predict the properties of molecules and to simplify molecular calculations. Molecular symmetry is a fundamental concept in Chemistry. The simple intuitive grasp of symmetry that most observant people naturally acquire is adequate for understanding chemistry up to a point. Many molecules have a certain degree of symmetry; methane is a tetrahedral molecule; benzene is hexagonal and so on. But in order to make the idea of molecular symmetry as useful as possible we must develop some rigid mathematical criteria of symmetry. We shall consider the kinds of symmetry elements that a molecule may have and the symmetry operations generated by the symmetry elements. We shall use the general properties of groups to aid in correctly and systematically determining the symmetry operation of any molecule [1].

### SYMMETRY ELEMENTS AND OPERATIONS

A symmetry element is a geometrical entity such as a line, a plane or a point with respect to which one or more symmetry operations may be carried out. On the other hand a symmetry operation is a movement of a body such that, after the movement has been carried out, every point of the body is coincident with an equivalent point of the body in its original orientation [3].

There are two systems of symbols for representing symmetry elements:

- (i) The Schonflies system, which is used primarily for molecular geometry and group theory.
- (ii) The Hermann-Mauguin system, which is used in crystallography.

In this paper the researcher will adopt the conventional use of the Schonflies symmetry notation. For single molecules there are five symmetry elements and corresponding symmetry operations.

Table – 1

Symmetry Operation	Symmetry Element	Symbol
1. Identity	Whole of space	E
2. Rotation by $360^\circ/n$	n - fold symmetry axis	$C_n$
3. Reflection	Mirror plane	$\sigma$
4. Inversion	Centre of inversion or centre of symmetry	i
5. Rotation by $360^\circ/n$ followed by reflection in a plane perpendicular to the rotation axis	n-fold axis of improper rotation	$S_n$

#### 1. Identity E:

The identity operation consists of doing nothing to the molecule. All molecules and other finite bodies – possess identity symmetry. The E-operation although apparently trivial is involved in group theoretical calculations.

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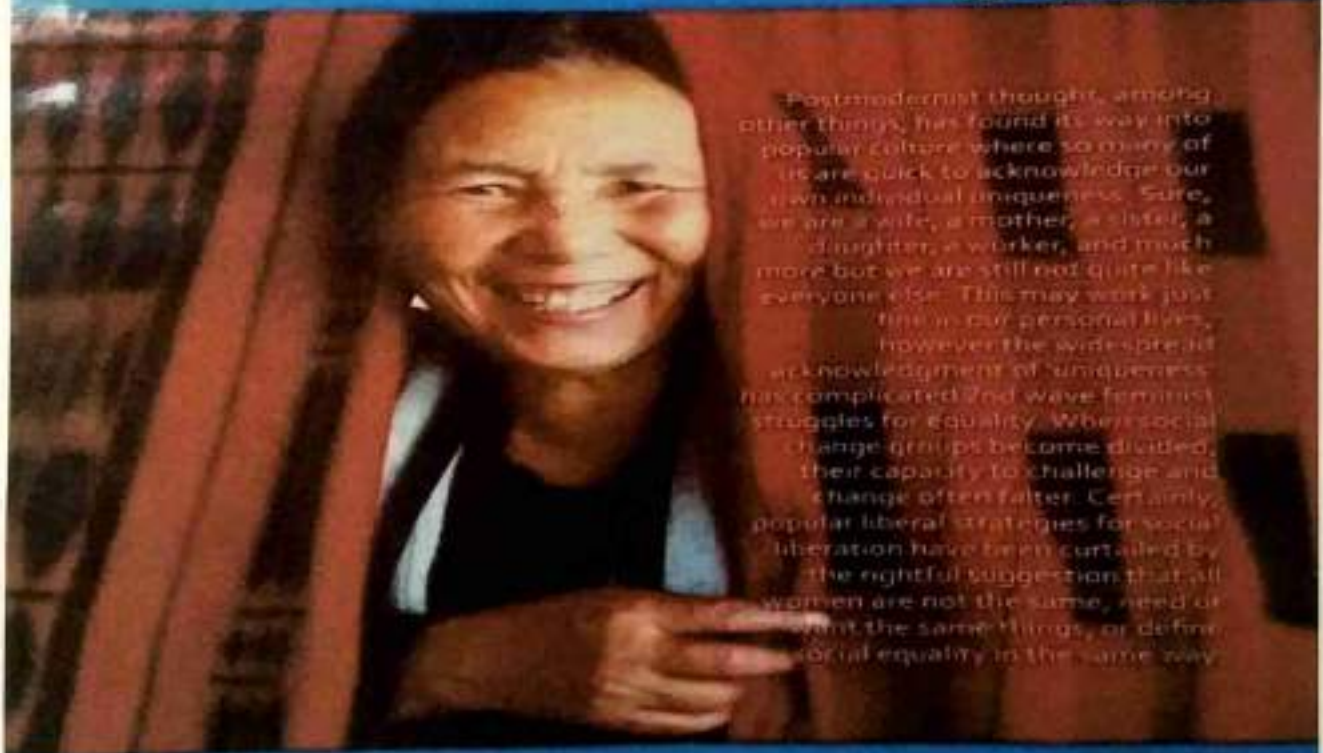
Celebrating 50 Years  
of Journey



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## Emerging Echoes

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Postmodernist thought, among other things, has found its way into popular culture where so many of us are quick to acknowledge our own individual uniqueness. Sure, we are a wife, a mother, a sister, a daughter, a worker, and much more but we are still not quite like everyone else. This may work just fine in our personal lives, however the widespread acknowledgment of "uniqueness" has complicated 2nd wave feminist struggles for equality. When social change groups become divided, their capacity to challenge and change often falter. Certainly, popular liberal strategies for social liberation have been curtailed by the rightful suggestion that all women are not the same, need or want the same things, or define social equality in the same way.

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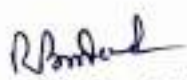
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Emerging Echoes : JOURNAL

  
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## ‘দঁতাল হাতীৰ উয়ে খোৰা হাওদা’ উপন্যাসৰ বিষয়সৰ হিচাপে নাৰী জীৱন

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### সংক্ষিপ্ত সাৰ

সাহিত্য হৈছে সমাজৰ নিঃস্বৰ্ণময় সাক্ষ্যস্বৰূপী। সমাজৰ ভাৱনা-চিত্ৰৰ প্ৰতিফলন ঘটে সাহিত্যত। অসমীয়া সাহিত্যৰ মাজেদিয়ে একো একোখন সমাজ প্ৰতিফলিত হয়। অসমীয়া উপন্যাস সাহিত্যৰ ক্ষেত্ৰত চকু ফুৰালে সমাজৰ কিছুমান ব্যক্তৰ দিশৰ প্ৰতিফলন খটা বেবিবলৈ পোৱা যায়। অসমীয়া উপন্যাস জগতৰ এগৰাকী উল্লেখযোগ্য উপন্যাসিক মাননি ৰয়ছম গোস্বামীৰ ব্যক্তৰতাৰ ভিত্তিত ৰচিত ‘দঁতাল হাতীৰ উয়ে খোৰা হাওদা’ নামৰ উপন্যাসখনত সৰ্বকেন্দ্ৰিক সমাজ এখনত নাৰীৰ স্থিতি, বিষয়া নাৰীৰ জীৱন-যত্নশা, নাৰীৰ কৰ্ম কৰ্মীণী হৰ্মস্পৰ্শীভাৱে বৰ্ণিত হৈছে। উপন্যাসখনত বৰ্ণনশীল সামাজিক পৰম্পৰাৰ বিৰুদ্ধে এক প্ৰতিবাদ শব্দস্বৰূপে ফুটি উঠিছে। উপন্যাসিকে তথাকথিত আচাৰ্য সমাজ এখনৰ ঘেৰিপোলা অৰ্থাৎ উসৰাই পেৰুওৱাৰ লগতে কুলীন সমাজ এখনত নাৰীৰ স্থান, পুৰুষতান্ত্ৰিক সমাজত নাৰীৰ অৰহেণিত, অৰহমিত হৈ থাকিবলগীয়া হয় সেইটো উপন্যাসখনৰ মাজেদি প্ৰতিফলিত কৰিছে। উপন্যাসখনৰ মাজেদি ঐতিহাসিক আচাৰ্য সমাজৰ অৰ্থ-সামাজিক অৱস্থাৰ চিত্ৰ, কামিয়ে পণ্ড কৰা সমাজৰ ছবি, সমাজত নাৰীৰ স্থান, বিষয়া নাৰীৰে সম্বন্ধী হোৱা মানসিক আৰু শাৰীৰিক যত্নশা, মানৱতাৰ চূড়ান্ত অৱস্থা—এই দিশসমূহ পৰিশ্ৰুতি হৈছে যদিও আলোচনাপ্ৰধানত খাহিকে সৰ্বকেন্দ্ৰিক কুলীন সমাজ এখনত নাৰীৰ স্থিতি এই দিশটোহে অধ্যয়ন কৰা হৈছে। বিশ্লেষণাত্মক পদ্ধতিৰ জৰিয়তে বিষয়টো আলোচনা কৰা হৈছে।

বীজ শব্দ উপন্যাস সাহিত্য, সৰ্বকেন্দ্ৰিক বৰ্ণনশীল সমাজ, বিষয়া নাৰীৰ জীৱন-যত্নশা, নাৰীৰ সামাজিক স্থিতি, পুৰুষতান্ত্ৰিক সমাজ

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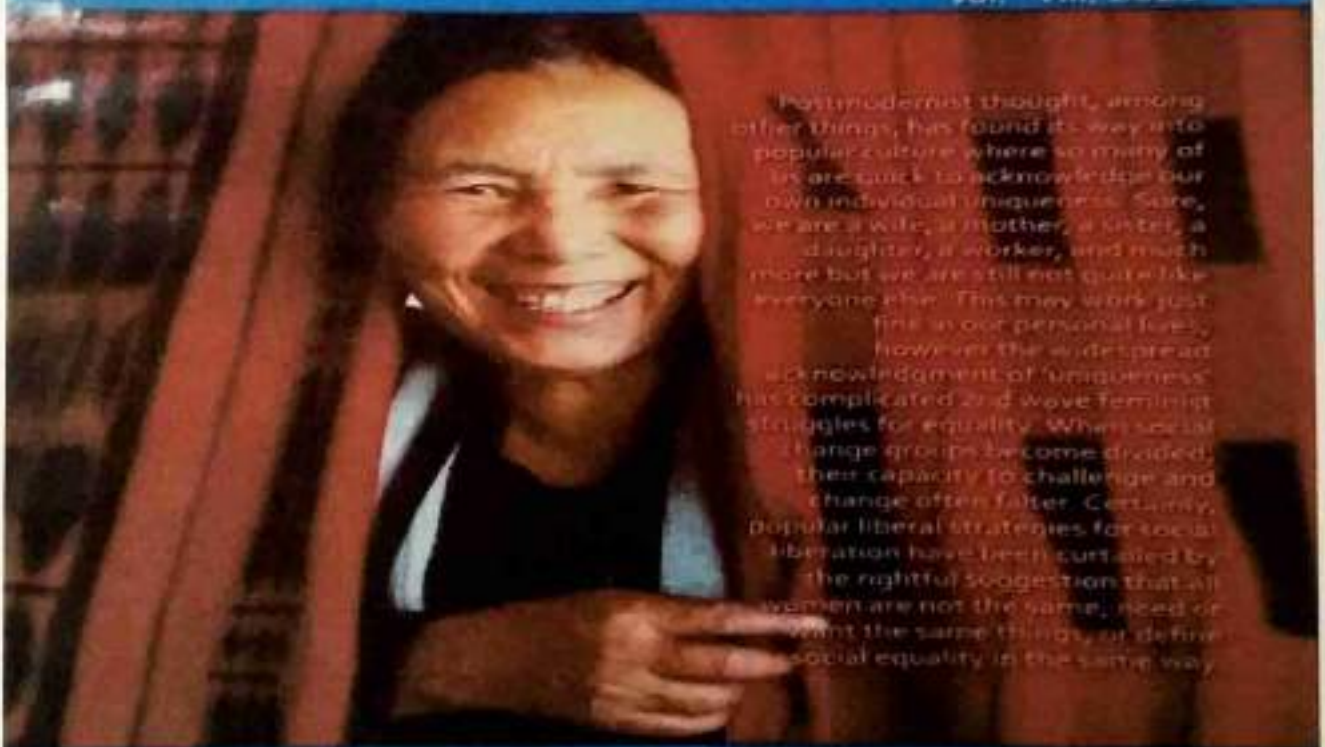
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Postmodernist thought, among other things, has found its way into popular culture where so many of us are quick to acknowledge our own individual uniqueness. Sure, we are a wife, a mother, a sister, a daughter, a worker, and much more but we are still not quite like everyone else. This may work just fine in our personal lives, however the widespread acknowledgment of 'uniqueness' has complicated 2nd wave feminist struggles for equality. When social change groups become divided, their capacity to challenge and change often falter. Certainly, popular liberal strategies for social liberation have been curtailed by the rightful suggestion that all women are not the same, need or want the same things, or define social equality in the same way.

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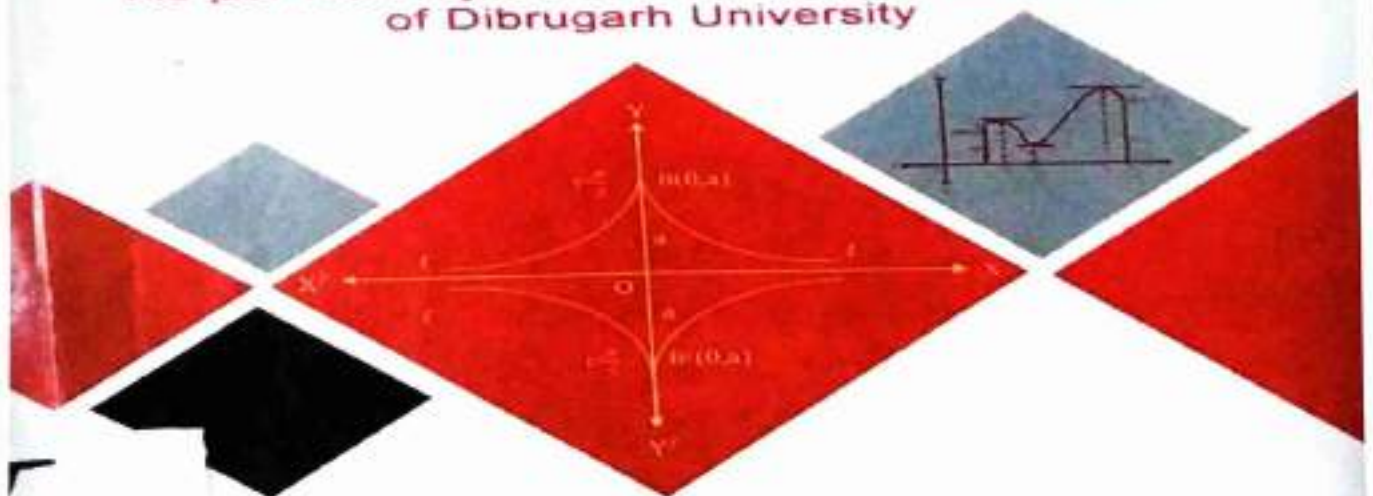
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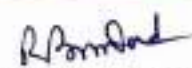
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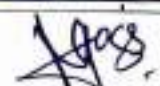
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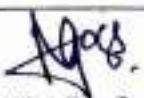
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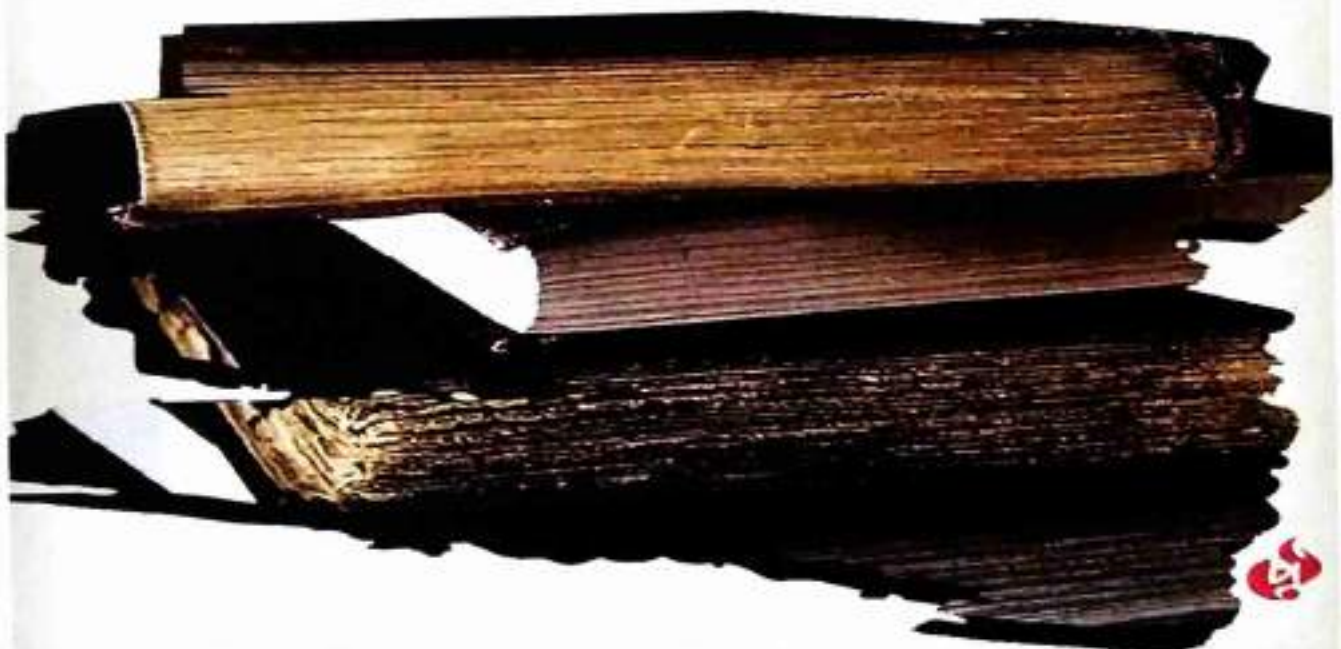
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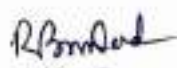
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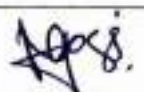
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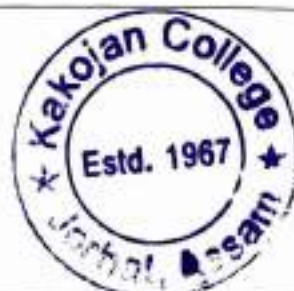
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Writings in English from the eight North-eastern provinces of India have no significant place in Indian English criticism. But, some attempts have been made over the last one decade or so to include and discuss the works of Robin S. Ngangom, Desmond Kharmawphlang, Mamang Dai, Yumlembam Ibomcha, Thangjam Ibopishak, Kynpham S. Nangkymnyh in anthologies and academic forum. Identity crisis is the hallmark of Northeast's contemporary politics. This identity has been conceived in essences of ecology and culture of the land. The mega-culture of the region which is a blend of tribal and non-tribal cultures is thwarted by the conflicts of alienation. In many cases the local myths have influenced the identity of the people. All the aspects of identity and problems arising out the identity crisis and social alienation have been the burning social issues of the contemporary era. These issues have been reflected in the poetry written in English by the poets of this region. The poets of North-east India have exploited the history, culture, legends, folklores, mythic dimension. Hills, villages, rivers, and community ethos have been major modes of exploring the realities and cultural traditions of the regions. Mystics, imagists and explicators of romantic conglomeration of mysteries, these poets are the first generation of Indian English writers from this region. In their home-bound pilgrimage, they have explored the glory of their lands to trace their clear identity against turmoil, identity crisis and self-alienation.

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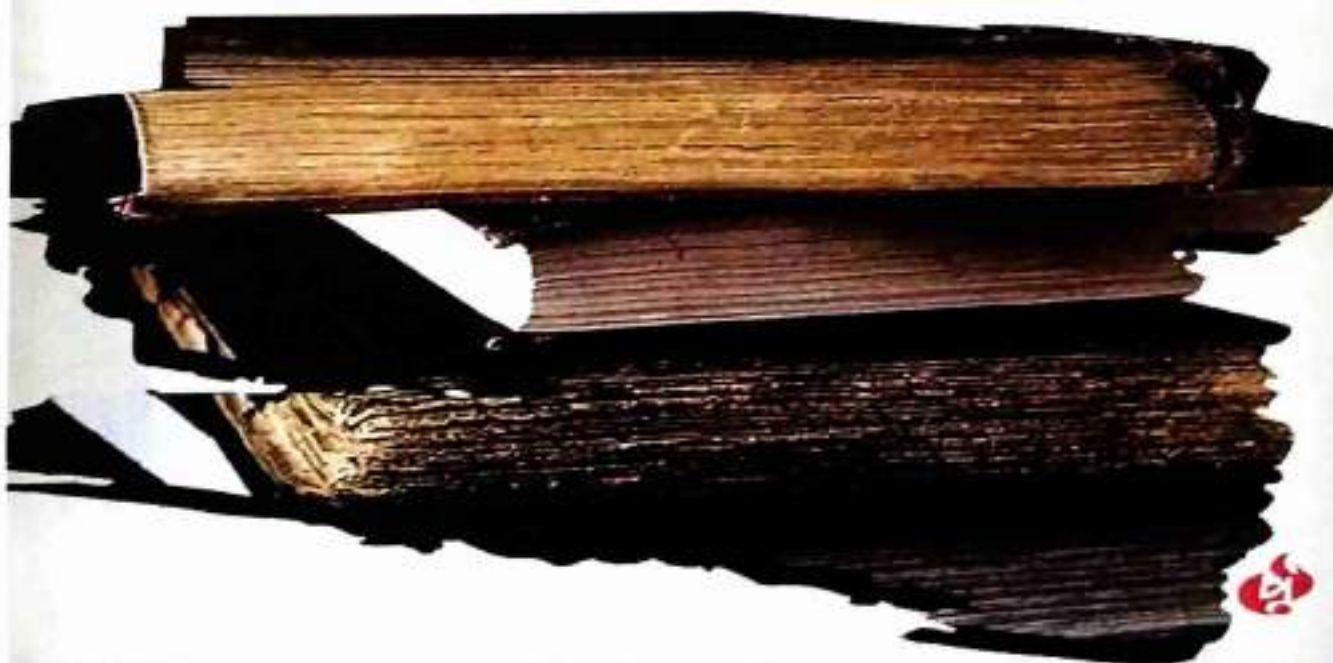
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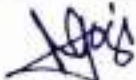
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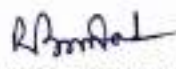
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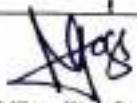
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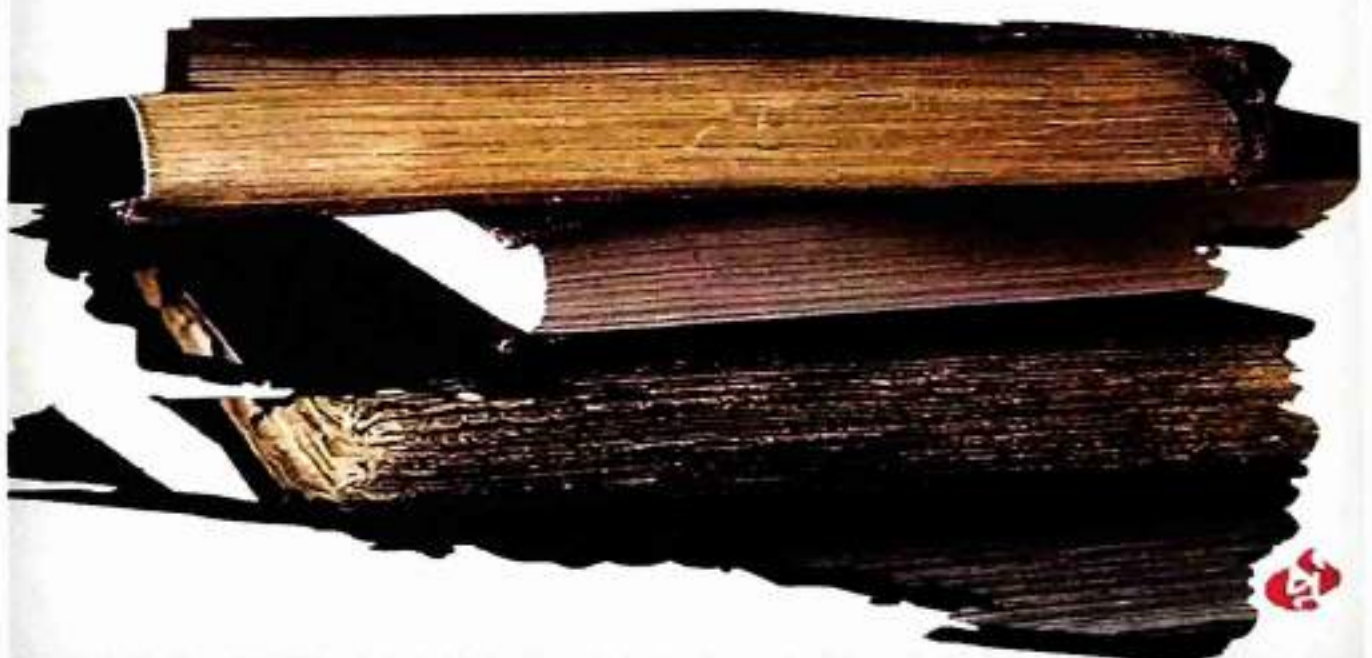
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## Socio-Literary Aspects of Assamese Devotional Song 'Zikir'

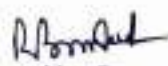
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### Abstract:

Zikir, in Assamese, were composed by a Sufi Saint named Shah Miran, popularly known as Azan Fakir. In the 16<sup>th</sup> and 17<sup>th</sup> century, the Sufi Saints from Central Asia scattered all over the world for the cause of propagating and revitalizing Islam. Among them Shah Miran from Baghdad arrived at Assam during the first half of the 17<sup>th</sup> century and entered the Ahom kingdom of Swargadeo Pratap Singha. Muslim had already made their way to Assam from North India in different phases since early 13<sup>th</sup> century and permanently settled in the state. During the hundred years, they had developed a mixed cultural assimilation with the other ethnic and religious groups. Except their names, they had no religious identity. To turn them to their own religious path, Shah Miran composed a new kind of Islamic Devotional song in Assamese language called Zikir. It dealt with the basics of Islam. The musical elements were completely taken from various Assamese folk songs. Propagation and revitalization of Islam is not the only important aspect of Zikir, but the literary quality and cultural significance of the kind of devotional song is the main consideration. The paper examines the literary aspects such as meaning, references, themes, use of language, style of writing etc. in Zikir. It also presents a review of the cultural significance of Zikir such as reflection of social life, religious harmony and other aspects that enrich the Assamese cultural life.

**Keywords:** Zikir, Devotional Song, Folk Song, Sufi Saints

  
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শিক্ষাবিদ অধ্যাপক আনন্দ শইকীয়া



মুখ্য সম্পাদক  
ড° ভূপেন্দ্র নাথ গোস্বামী

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কাকোজান মহাবিদ্যালয়, সোণহাট

দক্ষিণ মেলহাটল গৰিমামণ্ডিত শৈক্ষিক, নৌদ্বন্দ্বিতা চিত্ৰা-চেতনাল প্ৰাণকেন্দ্ৰ চিনামৰা অঞ্চলত এটা বাটপথহীন জাপনিত উচ্চ শিক্ষাল এগাছি নশ্তি জ্বলাই এলক তৰল প্ৰজন্মক "জ্ঞানৰ দৰে সৰ্বৌৎকৃষ্ট বিদ্যা"ৰ সৈতে জড়িত কৰি নোতুহ লভন কৰা অতি দ্বন্দ্বিতা সাত্ৰস আৰু উন্নত মানসিক শক্তিৰ ব্যক্তি হিচাপে মই শ্ৰীযুত আনন্দ শইকীয়াসকলক ডিনি পাওঁ। এয়াই তেখেতৰ প্ৰতি মোৰ প্ৰাথমিক মাৰণা।

এই চিনামৰা মহাবিদ্যালয়ৰ বৰ্তমানল অধ্যক্ষ ড° অঞ্জল শইকীয়া প্ৰমুখো কেইবাগৰাকী অত্ৰলংগা সুহৃদ বন্ধল কৰ্মজ্বলী চিনামৰা মহাবিদ্যালয়ল সৈতে বিভিন্ন প্ৰসংগল জড়িত ইহ আনন্দ শইকীয়াসকলক জনাৰ সুযোগ পাৰলোঁ। অসমল সুপ্ৰতিষ্ঠিত উচ্চ শিক্ষানুষ্ঠানল পলা আৰম্ভ কৰি নিচেই চালুকীয়া অৱস্থাল বহু অনুষ্ঠানক জনাৰ সুযোগ পাৰিলোঁ। তাৰ তুলনাত চিনামৰা মহাবিদ্যালয় যেন এক দুৰন্ত কপত আগবাঢ়ি অহা এক সুসংহত, প্ৰাণজাপকল্যল ভলা এক উচ্চ শিক্ষানুষ্ঠান। অঞ্চলটোল বিদ্যানুৰাগী গাইজন নিবলস প্ৰচেষ্টাল নোতুহৰ কপত ভূমিকাল লোৱা আনন্দ শইকীয়া দেবক লাহে লাহে ঘনিষ্ঠভাৱে জনা পোৱাল সুযোগ পাৰলোঁ।

অত্ৰপু সংগ্ৰামী যোদ্ধাৰ মানসিক শক্তি থকা ব্যক্তিগৰাকী নিজল লক্ষ্য আৰু আদৰ্শত অবিচলিত। অসত্ৰল বিসয় এটা সত্ৰল কৰি তোলা সুপলিকল্পনাত মানসিকভাৱে পাৰ্গত এক ব্যক্তিহ। তেনে এগৰাকী ব্যক্তিৰ জীৱনাদৰ্শ আলোচনাৰ অৰ্থে এখন অভিনন্দন গ্ৰন্থ প্ৰকাশ কৰাৰ আচনিও অতি প্ৰশংসনীয় কাৰ্য। তাত জড়িত হোৱাৰ সুযোগ পিলাৰ ললে সম্পাদনা মণ্ডলীক কৃতজ্ঞতা জাপন কৰিলোঁ।

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গণহিতৈষণাল অবিচল কাণ্ডাৰী

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## BOOK CHAPTER PUBLISHED (2020 – 2021) (BORSHA RANI BORAH)

The book on Sociology of Covid-19 tries to analyze and understand the dynamics of the pandemic. The emergence and rapid spread of Covid-19 throughout the world have posed new challenges in our understanding of communicable disease dynamics. Eighteen chapters in the book cover a wide range of themes both on the pandemic and its impacts, mostly contextualizing Indian society, which include interdisciplinary perspectives: sociology of the pandemic, globalization and novel diseases, dynamics of post-corona social reality, gender disparity, impact on society, problems of elderly, social stigma, effect on nutritional status, state-society relationship, effect on livelihood system, perceived management practices, effects on higher education, erosion of labour laws, impact on market, globalization of healthcare, health care, and impact on environment. Book is a product of the International Conference on Covid-19 held in 2020, at University of Science & Technology, Meghalaya, in collaboration with IC-12 (Sociology of Health, Ageing & Well-being) of Indian Sociological Society, University of Delhi, Indian Institute of Technology – Guwahati, FIAR – New Delhi, & TRIBAC – Agartala.

Sociology of Covid-19



Baharul Islam Laskar

### Sociology of Covid-19 Pandemic

Indian Experiences



Baharul Islam Laskar, founding Hult, Dept. of Sociology/Social Work, University of Science & Technology, Meghalaya, India, 25 years of experience in research & teaching. Area of interest includes sociology of health, childhood, environment, marginalized communities, digital sociology, etc. Drafted the syllabi for BA Sociology, MA Sociology, BWSM/SWL.



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Sociology of Covid-19 Pandemic

## Chapter – 8

### ASHA and Social Stigma during Covid-19: A Study of Kakojan PHC

Borsha Rani Bora

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#### Introduction:

The Covid -19 is not only creating health crisis, but also it creates the social crisis in the world which attacks many communities by different ways (UN 2020). Likewise, India is also in a leading position in increasing of affected number of Covid-19. Along with the affected number, the fear and anxiety are being increased among the population. Along with so many problems, covid-19 is creating social stress like social anxiety, attitude of discrimination among the people. The problem of negative discrimination or stigma is faced due to migration, religious hatred during the Covid-19 situation (Singh 2020). Such type of discrimination or problem of stigma is faced by the Covid-19 affected people as well as the health professionals too. Due to the fear and anxiety, people are creating social isolation or stigma to some category of people (UN India 2020).

Stigma is the attribute which creates some negative stereotypes. Sociologists have studied it in macro and micro level perspectives. According to Goffman, stigma is general aspect of life that complicates every micro level interaction. It is the notion of negative attitude towards someone due to their disabilities or illness and some characteristics inherited by them. In the discussion of Link and Phelan, it is found that stigma arises when people label the differences of individual or group and creates some negative attitudes towards the differences. Again, people make them different from normal people and discriminate anyway. Goffman mentions, most people face experience of stigmatized in any phases of life which is noticed in the interactional context (Clair 2018).

There is a relationship between the infectious diseases and stigma for long periods in India. The disease goes on, but not the discriminatory attitude. Incidences of stigma and discrimination have been even faced by the health professionals in India (Mehta 2020). Along with the health workers including doctors to the frontline workers, the migrants; victims of religious trauma have experienced stigma or discrimination in the pandemic situation in India. As stigma arises due to lack of knowledge, illiteracy, etc., therefore stigma related to Covid -19 is the result of people's

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TEXT BOOK PUBLISHED (2020 – 2021)  
(LAKHYA PROTIM NIRMOLIA)

ডিব্ৰুগড় বিশ্ববিদ্যালয়ৰ সাতক মৰলাত নাট্যনৈক অৱৰ্তন হোৱা  
পঞ্চম ডিভিচন মানা লাভছা (C.B.C.S)ৰ পুৰস্কাৰ পিতাৰ (সেখাৰ)ৰ  
মজ কাকতৰ পাঠ্যক্রম অনুসৰি প্ৰস্তুত কৰা গ্ৰন্থ

কাল্পনিক  
পুথিৰ বস্তু

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প্ৰথম খণ্ড

RISE OF THE MODERN WEST-I

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লক্ষ্য প্ৰতীম নিৰ্মলীয়া

দিপমজ্যোতি বুঢ়াগোহাঁই



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**ADHUNIK PACHATYAR UNMESH (Pratham Khanda) : A Text book on History (Core) for Three Year Degree Course prepared as per new Choice Based Credit System (C.B.C.S.) syllabus for 3rd Semester, 2nd Paper written by Bhrigumoni Nath, Assistant Professor, Cinnamara College, Jorhat; Lakshya Pratim Nirmolia, Assistant Professor, Kakojan College and Dipamjyoti Buragohain, Assistant Professor, Bihpuria College, Lakhimpur**

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