

BAOSI BANIKANTA KAKATI COLLEGE

(Affiliated to Gauhati University)

Nagaon, Barpeta

Assam – 781311 (INDIA)

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Website: www.bbkcollege.ac.in



3rd CYCLE NAAC ACCREDITATION 2024

DVV Clarifications

3.3.2: Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

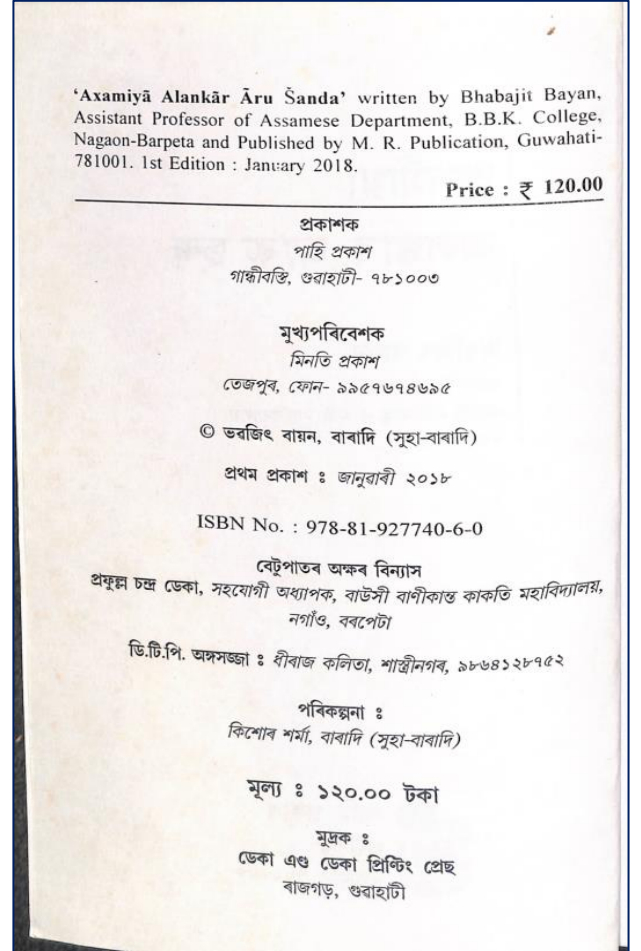
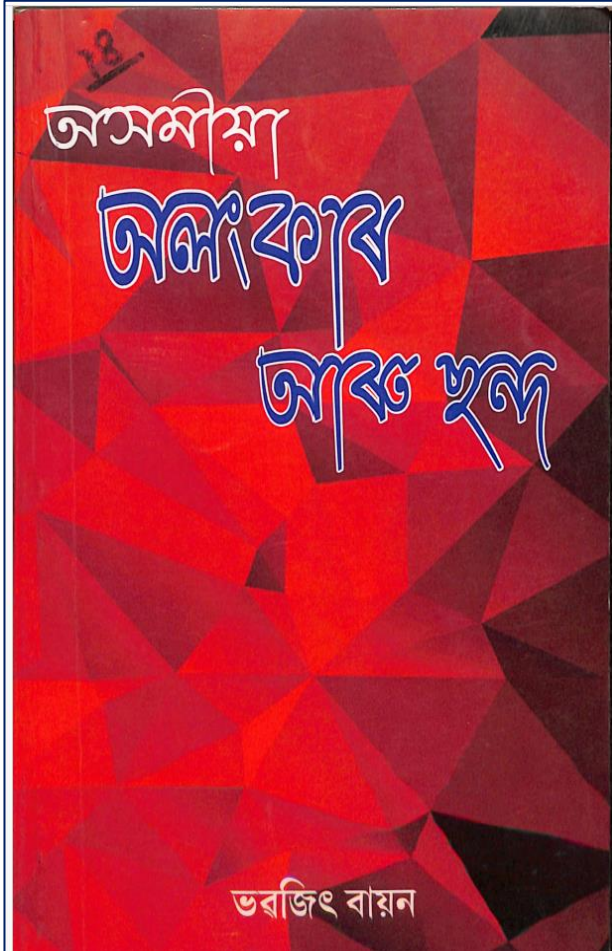


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An Autonomous Institution of the University Grants Commission

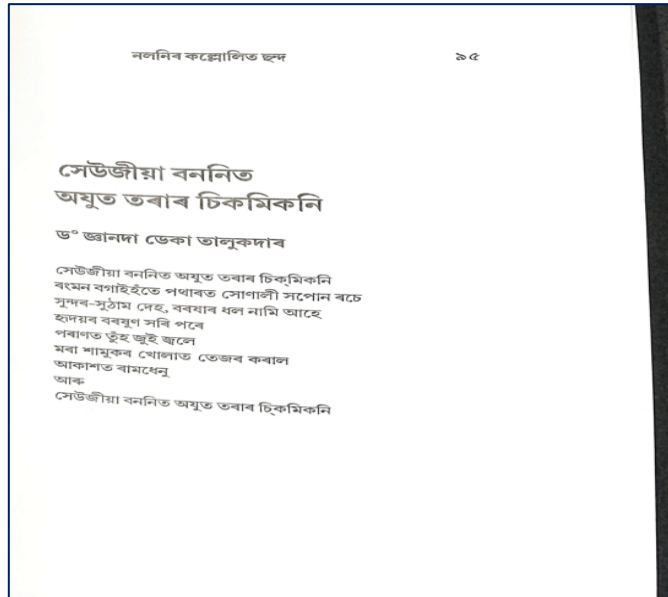
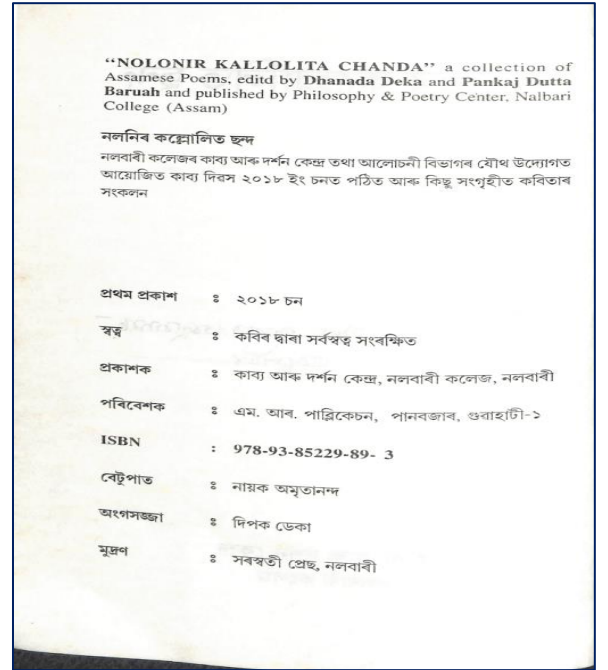
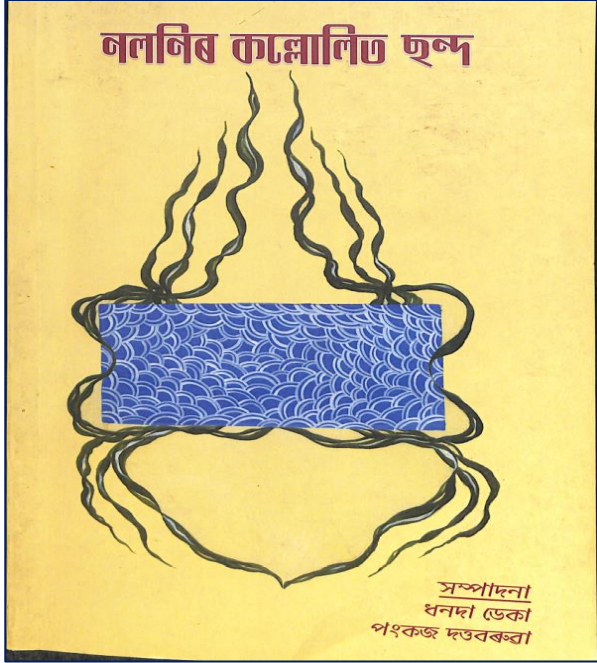
राष्ट्रीय मूल्यांकन और प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का एक स्वायत्त संस्थान

3.3.2 Additional Information**1) Bhabajit Bayan: Asomiya Alankar aaru Chanda (2018-19) (Book)**

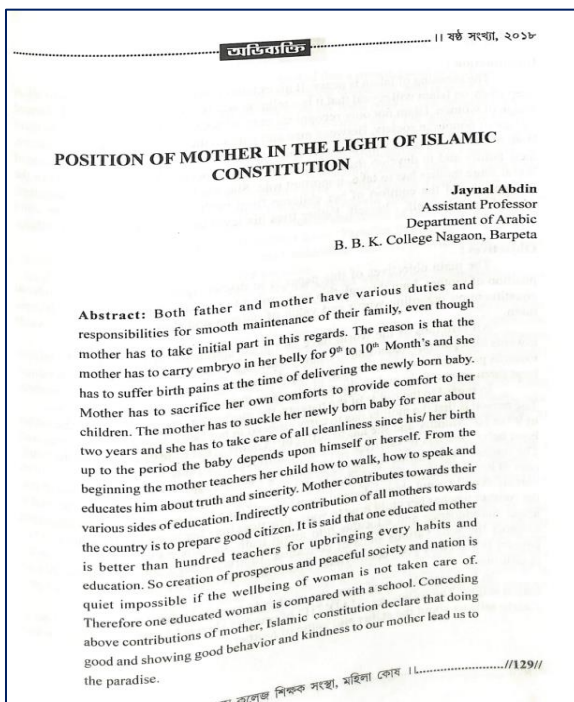
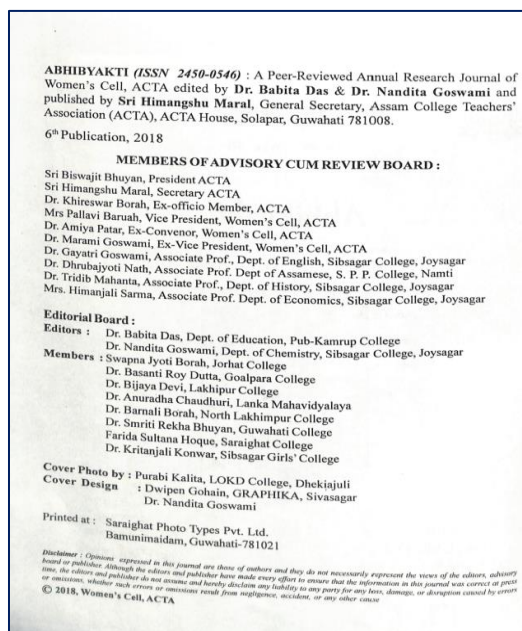
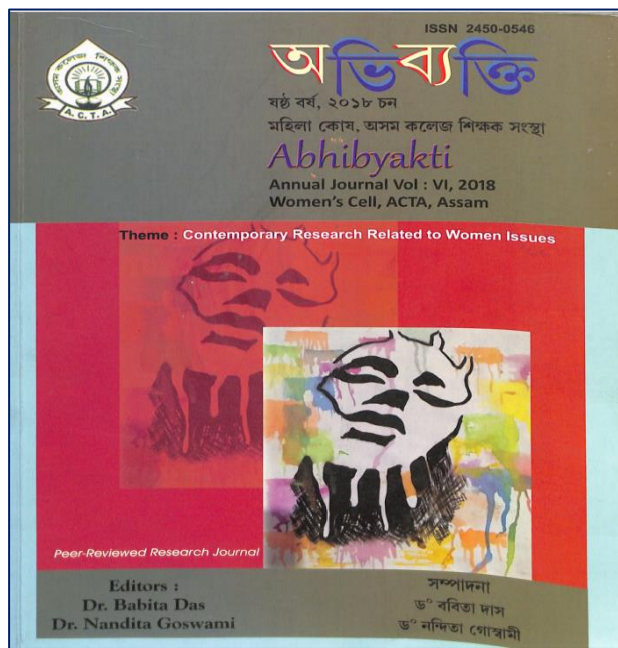
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2) Dr. Gyanada Deka Talukdar: *Seujiya Bananit Amrit Tarar Chikmikani* (2018-19)



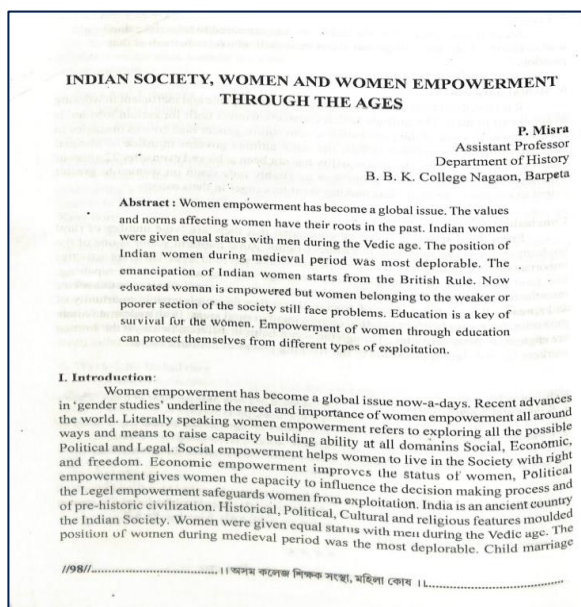
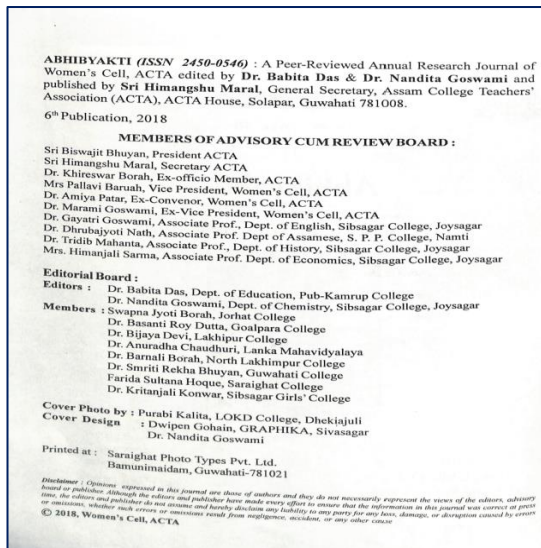
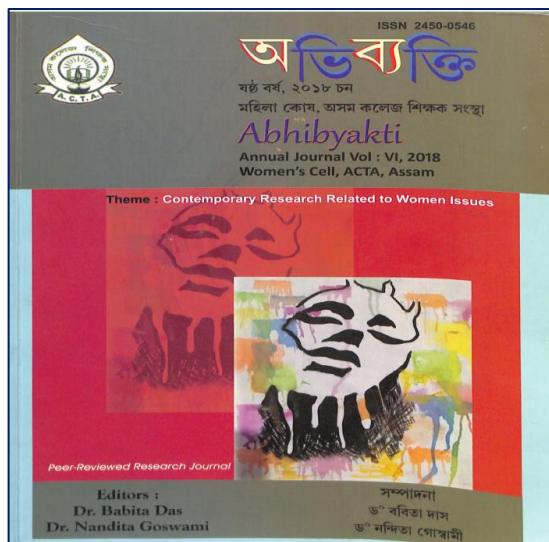
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3) Dr. Jaynal Abdin (2018-19)



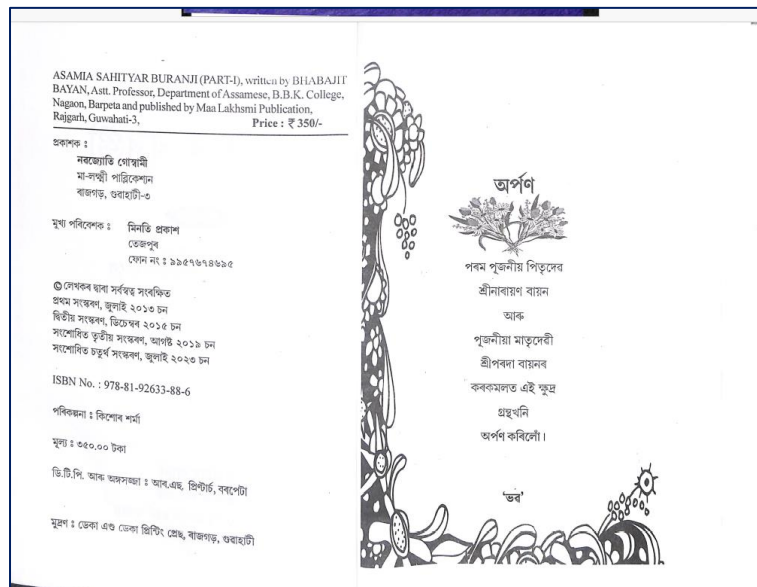
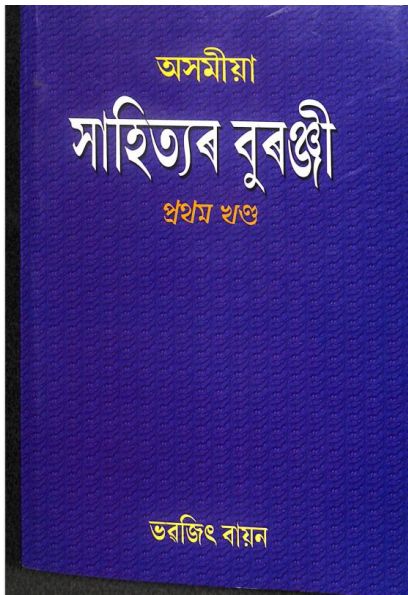
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4) Phulrenu Mishra (2018-19)



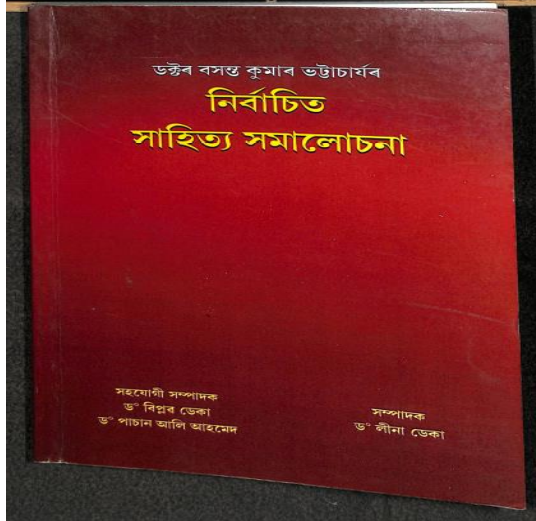
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5) Bhabajit Bayan: *Asomiya Sahityar Buranji* (2019-20)

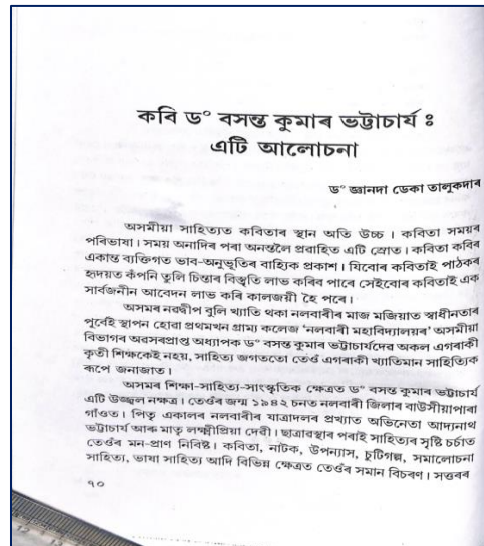


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6) Dr. Gyanada Deka Talukdar (2019-20)

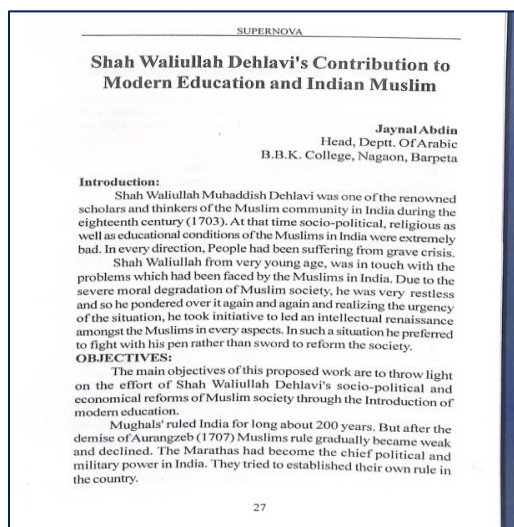
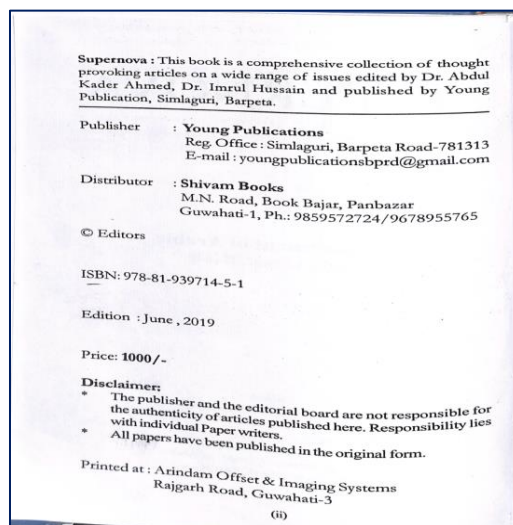
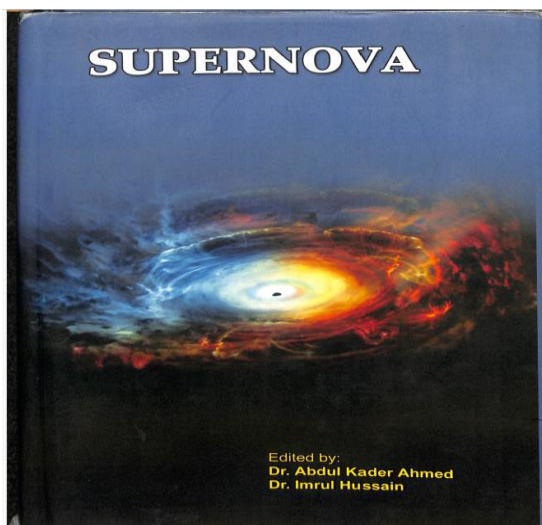


"Doctor Basanta Kumar Bhattacharya Nirbachita Sahitya Samalochana": A collection of literary criticism of Dr. B.K. Bhattacharya, edited by Dr. Leena Deka, Dr. Biplob Deka and Dr. Pushan Ali Ahmed.	
প্রথম প্রকাশ	২০১৯
গ্রন্থকর্তা	সম্পাদকসকল
সম্পাদনা সমিতি	
সম্পাদক	ড° লীনা ডেকা
সহযোগী সম্পাদক	ড° নিপল ডেকা ড° পাচন আলি আহমেদ
সদস্য	ড° ব্রিজেশী বেজবৰুয়া ড° মনিমা ভূঞা ড° হিমাংগ গোহাষী
ছপা	নিউ ডিজিটেল কম্পিউটার এণ্ড বর্গ প্রকাশন গোষ্ঠী কলেজ বোড (এম.এল.জি. কলেজের সম্মুখ), নলবাৰী
মূল্য	২০০.০০ টকা মাত্ৰ



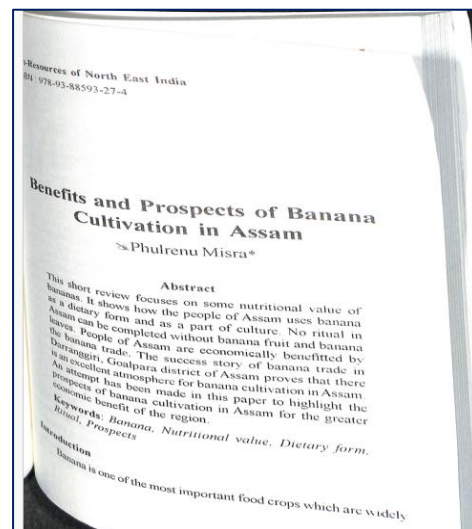
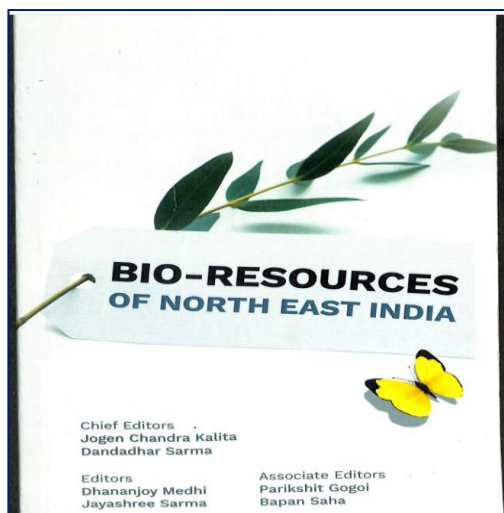
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7) Dr. Jaynal Abdin (2019-20)



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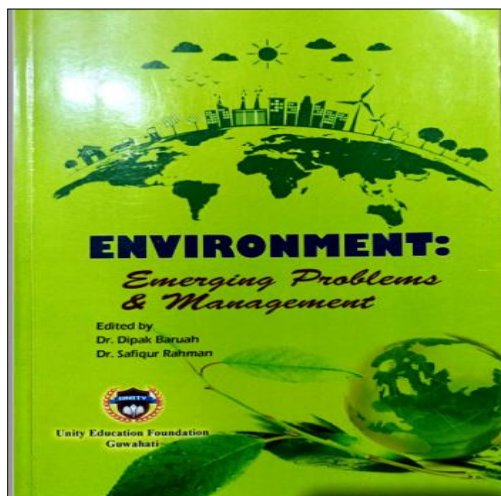
8) Phulrenu Misra (2019-20)



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9) Haripriya Das: Benefits of herbal plants in Karbi Society of Assam (2020-21)

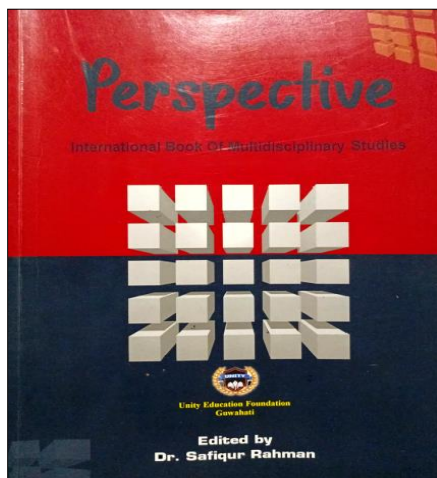


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86	Environment & Education
5.6 Benefits of Herbal Plants in Karbi Society of Assam	
Juri Das¹ Haripriya Das²	
Introduction : Environment have direct relationship with society. Environment has all kinds of living and non living things which together create an environments. Today along with the study of environment the study of the utility of natural resources are also emphasized. The knowledge of environment and its natural resources is very necessary in contemporary period. This knowledge will provide lot of opportunities and scopes to understand and cope with nature. The knowledge of environment and its natural resources has always been known from ancient times. But in the materialistic period circumstances are different and as natural resources are utilized in a processed way so the identification of some resources such as plants have minimized. In order to save our environment we have to understand and discover our environment. Field of study like Anthropology helps in preserving human culture and also traditional medicine used by different communities. Today the relationship between man and environment is weak. Imbalance in nature is harming themselves and their surrounding. In ancient time people had made lot of but as time passed people are failing to recognize its root and richness of nature. And eventually living beings because of this even for some acute diseases people seek allopathic treatment. This is the evidence how people distanced themselves from nature.	
Area of study : Assam is an evergreen state of India with enormous medicinal plant and herbs. In the tribal society the use of the plants as medicine is prevalent from long time. This study of herbal medicine was carried out among the Karbi Tribe of Kheri Village, Kamrup metropolitan district of Assam. The Karbi people of Kheri village very simple living their, their primary occupation is agriculture, they have faith in religion and their local traditional healer, there is only one pharmacy and one health center in the village so they mostly visit their community healers. These healers diagnose the diseases and prescribe the natural herbal medicine. Karbis are one of the main tribes of north east India. The Karbi belong to the Mongoloid group and linguistically they	
1. Research scholar, Assam University 2. M.Sc. Guwahati University	

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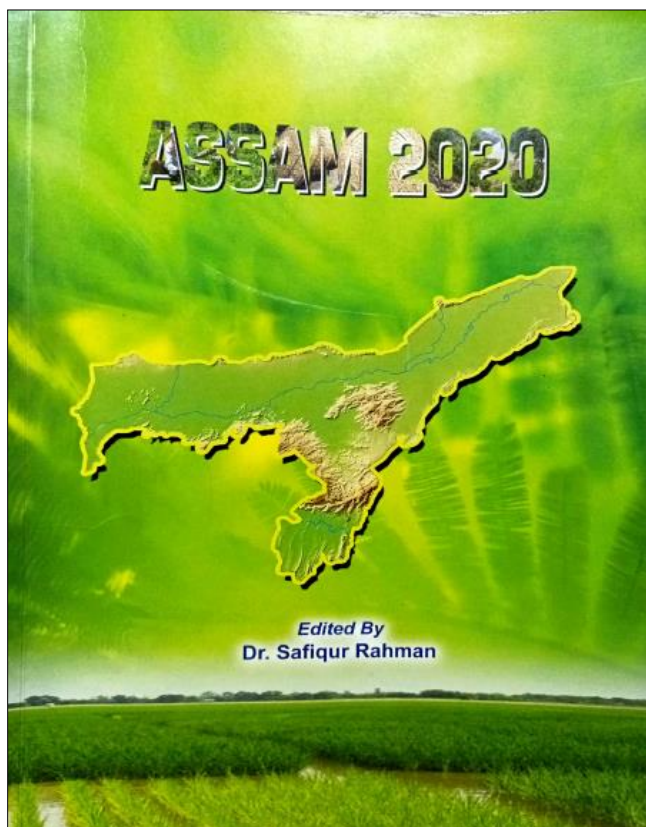
10) Haripriya Das: Herbal Homemade remedies practiced by the Karbi people of Assam



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11) Haripriya Das: Indigenous Knowledge of Herbs of the Karbi community**Indigenous Knowledge Of Herbs Of The
Karbi Community****Haripriya Das**

Abstract : This research paper is mainly on herbs and its benefits to human society and the acceptance of different herbs as medicine by Karbi community by trial and error process from generations and also the transmission of herbalknowledge to people and community to cure and prevent illness and ailments.

Keywords : Herbs, Indigenous knowledge, Herbal medicine, Karbi community, Assam

Introduction :

The use of herbs to treat diseases is almost universal among non-industrialized societies. Medicinal plants are one of among non-timber forest products, which are directly acquired from forest to use it as raw or in a processed way to cure various ailments. About 80% of people world wide rely on herbal medicines for some aspects of their primary health care. In 2008, the global market for herbal remedies was about USD 83 billion and now it is about 100 billion. About 100 years ago, natural herbs were the main remedy for treating human diseases. It has been estimated that 25% of modern medicines are made from plants first used traditionally such as aspirin, artemisinin, ephedrine and paclitaxel. However there is limited scientific evidence to establish the safety and efficacy of most herbal products but still different community consume herbal medicine with faith. There is always an appropriate way to use herbal medicine, it may be a mixture of one or more ingredients, different parts of a plant such as root, rhizome, stem, leaves, flower, fruit, seed etc. is used in different ways. The aim of herbal treatment is usually to produce persisting improvements in well being.

Area of Study :

The study was conducted in a village near Brahmaputra valley which is mostly inhabited by indigenous people of Assam. The field study was conducted in order to understand the different use of herbs and the diseases that are treated by the herbs. The village is situated in the kamrup metropolitan district of Assam, India. The Karbi community was taken into consideration for study.

The study community were simple, loving and compassionate towards each other and to their guest, they were welcoming to the researchers and provide them necessary information

M.Sc from Gauhati University

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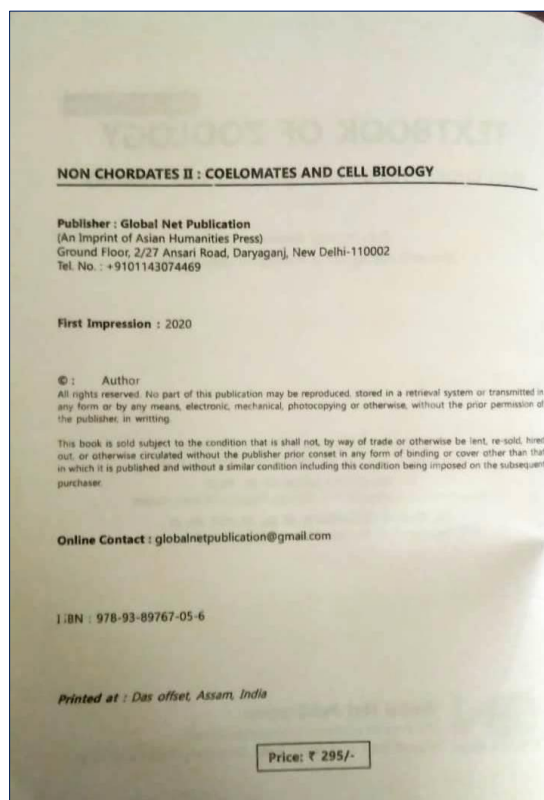
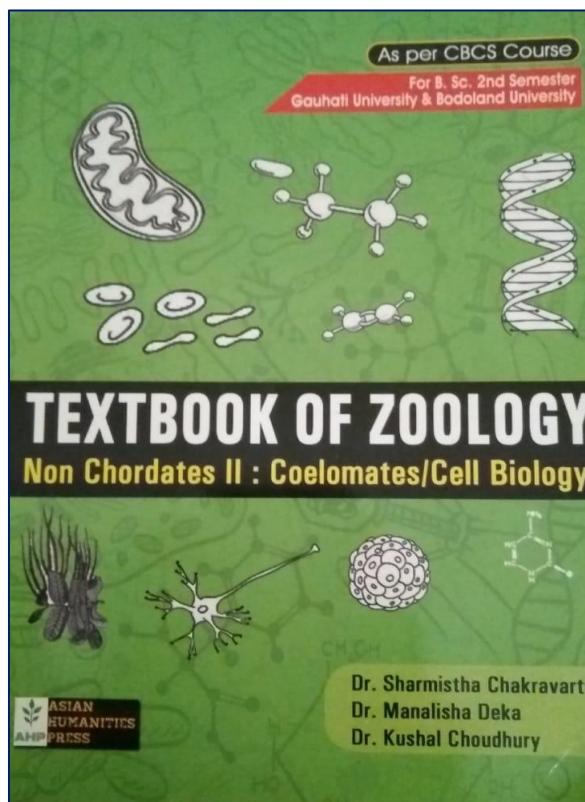


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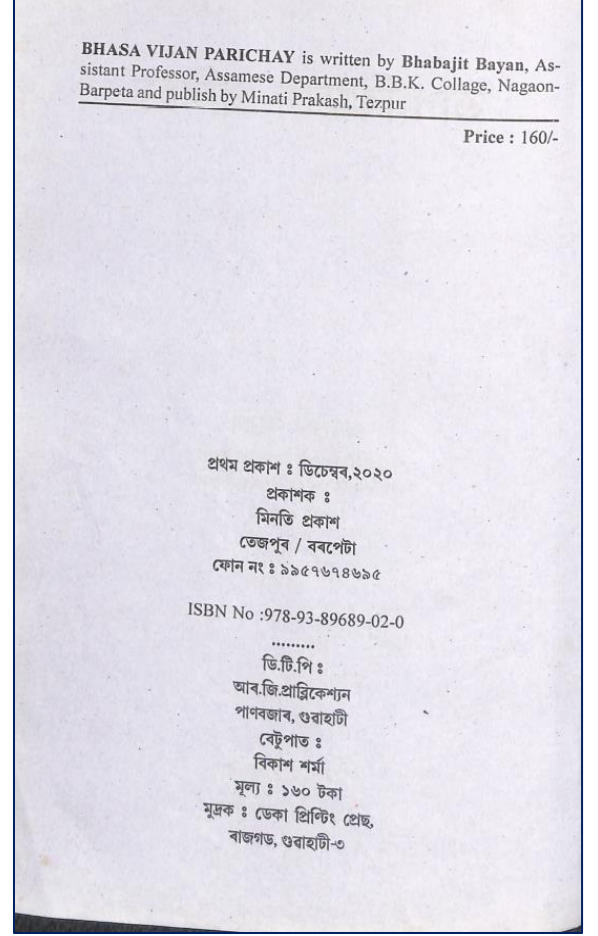
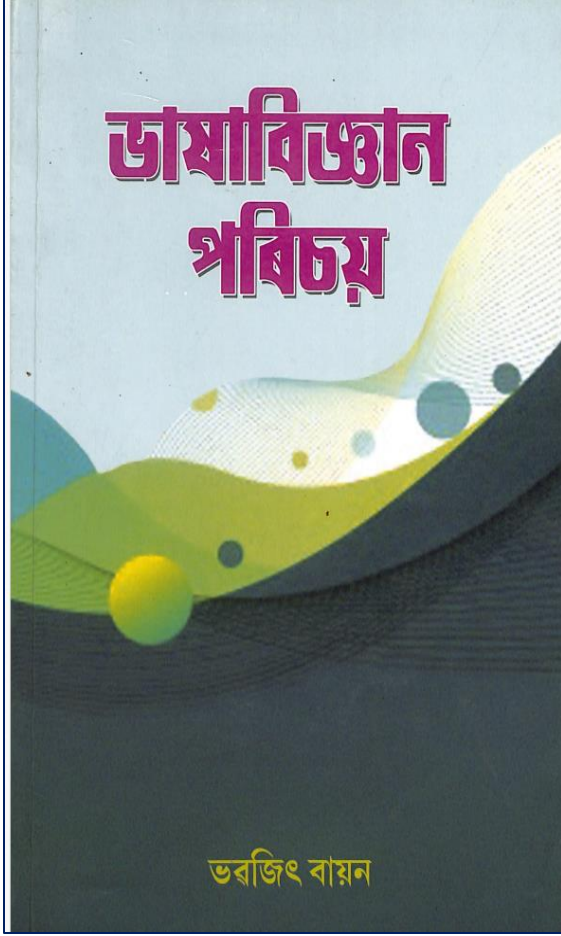
**Dr. Pradip Das
Principal**

12) Dr. Manalisha Deka: Textbook of Zoology-Non Chordates II (2020-21)



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13) Bhabajit Bayan: *Bhasa Vijan Praichay* (2020-21)



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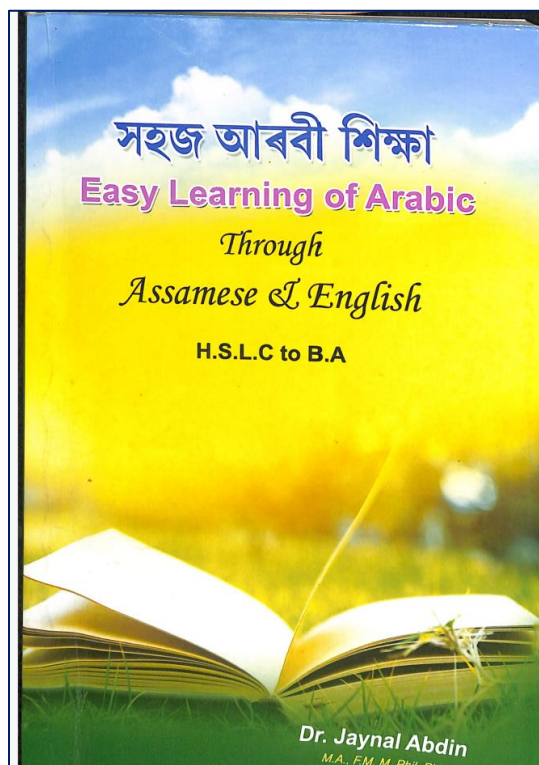


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14) Dr. Jaynal Abdin: Easy Learning of Arabic (2020-21)



Easy Learning of Arabic is a grammatical and various Arabic words meaning book compiled and prepared by Prof. Jaynal Abdin, M.A., F.M., M. Phil., Ph. D., Head of Arabic Deptt. B. B. K. College, Nagaon (Barpeta).

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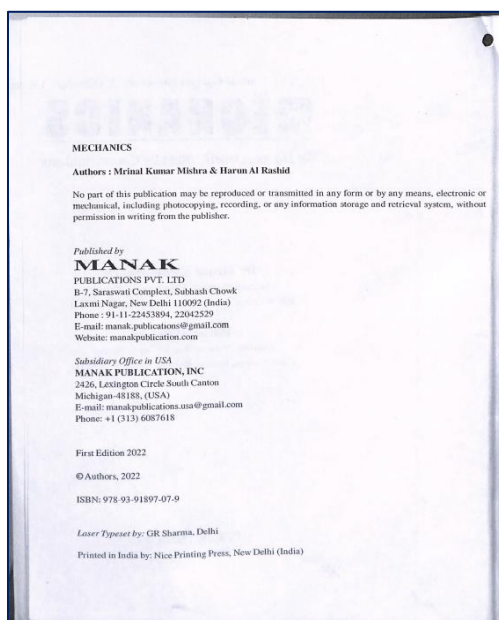
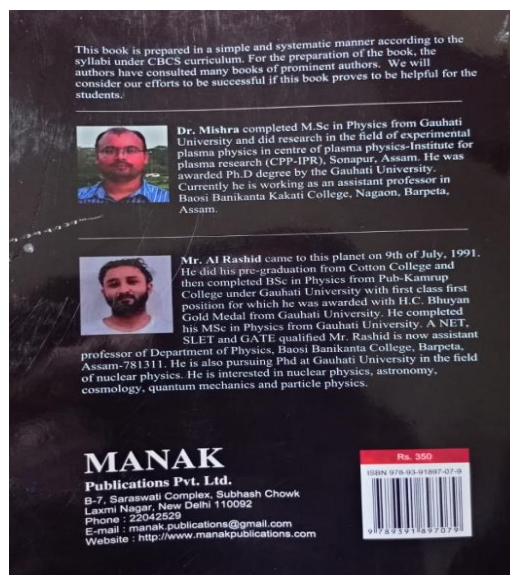
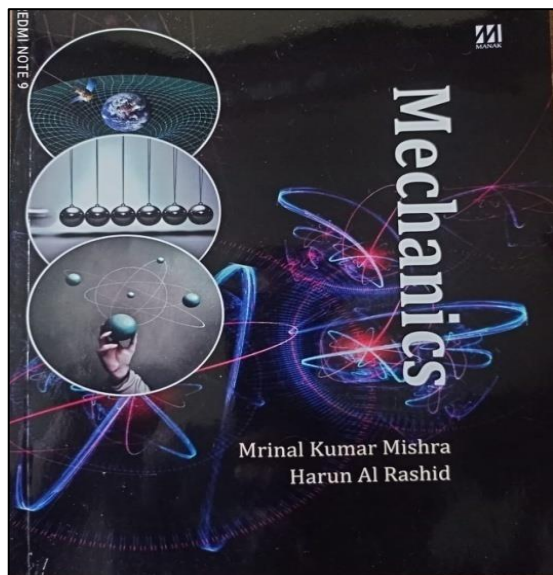


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15) Dr. Mrinal Kr. Misra : *Mechanics* (ISBN- 978-93-9187-9) (2021-22)



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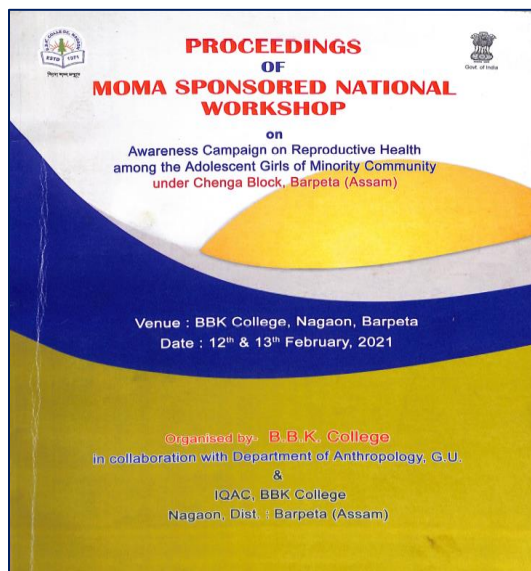


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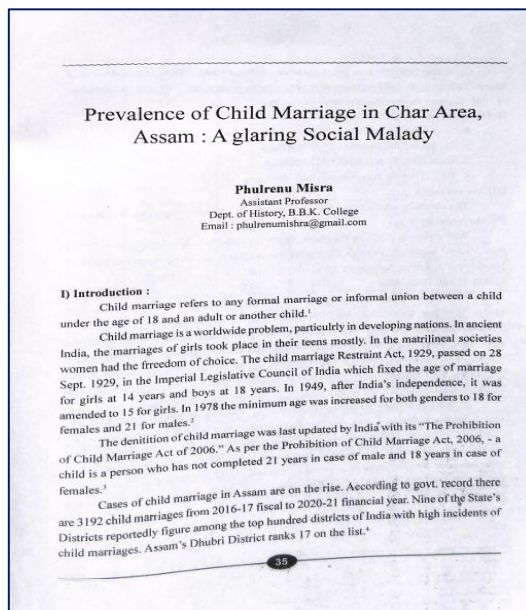
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Dr. Pradip Das
Principal

16) Phulrenu Misra (2021-22)



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• Reproductive health among adolescent girls	Dr. D. Swapna Kakati
• Reproductive Health Among The Adolescent Girls	Dr. Wahida Nazni
• Population	
• Family planning	
• Adolescent health problems	Dr. Mustaque Ahmed
• Adolescence-Issues And Challenges	Dr. Manalisha Deka
• Investing in Adolescent Health : The Status of Assam	Dr. Gopali Kumar Sarma
• Prevalence of Child Marriage in Char Area, Assam : A glaring Social Malady	Phulrenu Misra
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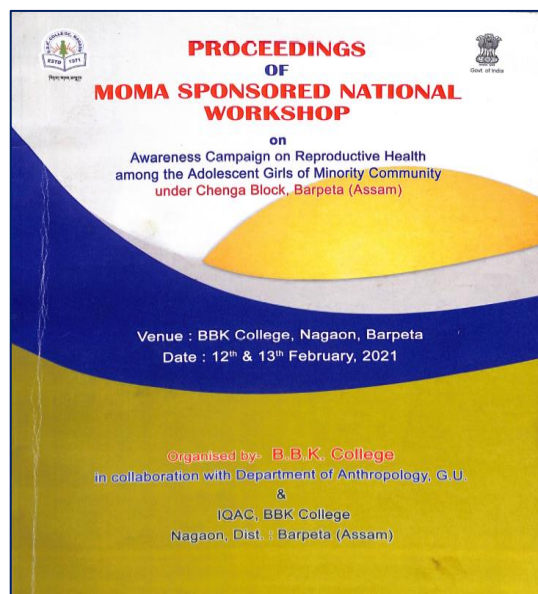


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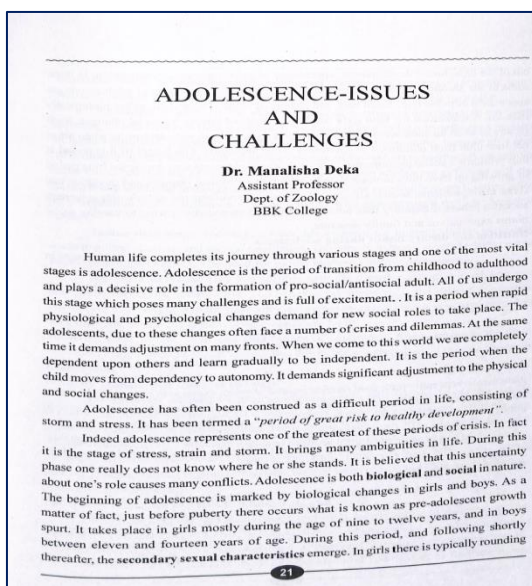
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17) Dr. Manalisha Deka (2021-22)



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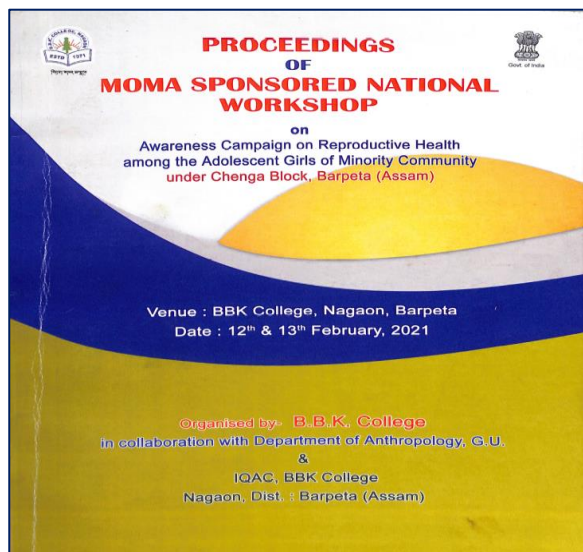


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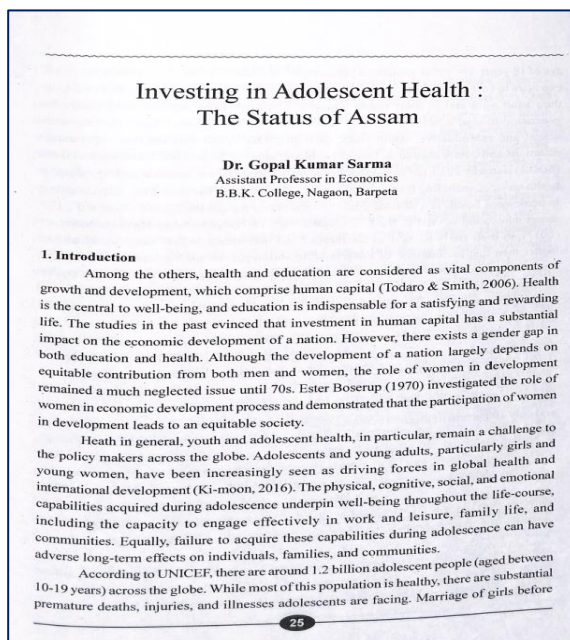
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Dr. Pradip Das
Principal

18) Dr. Gopal Kr. Sarma (2021-22)

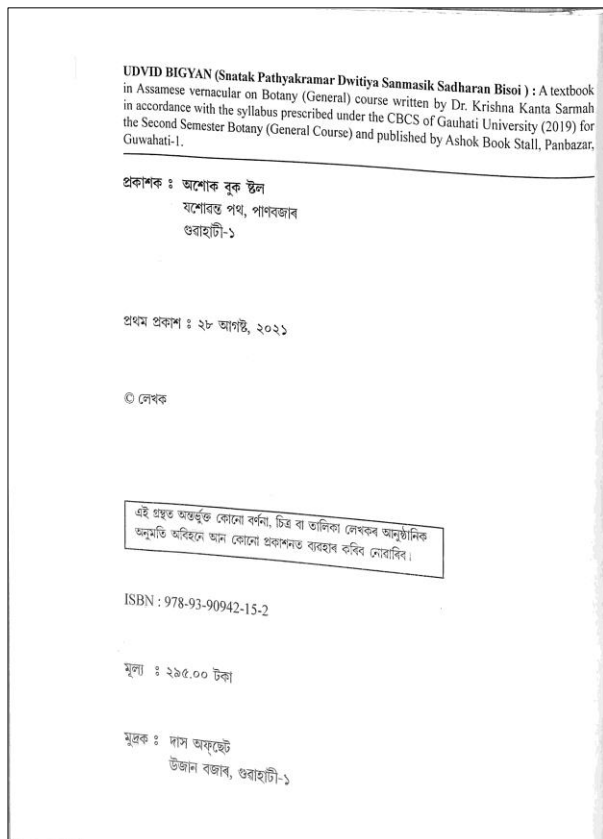
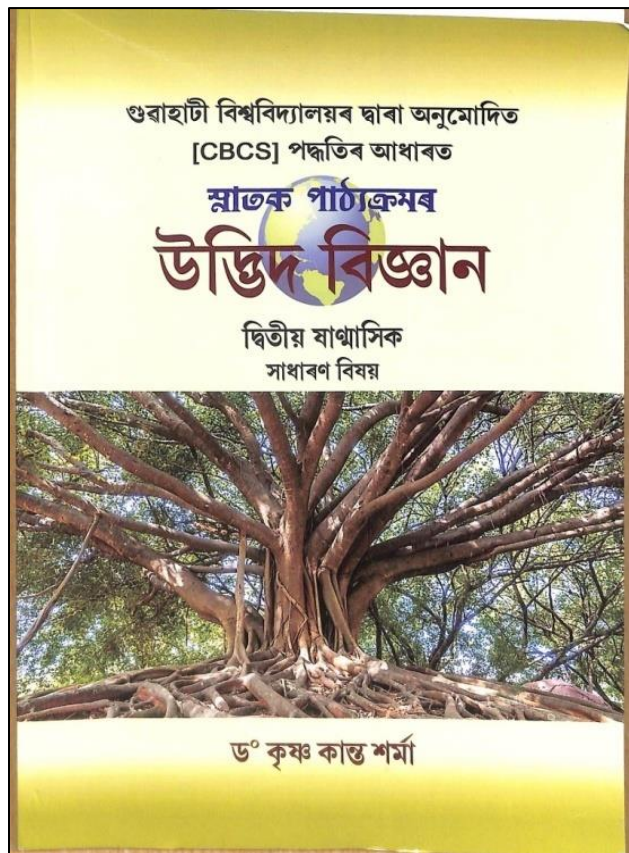


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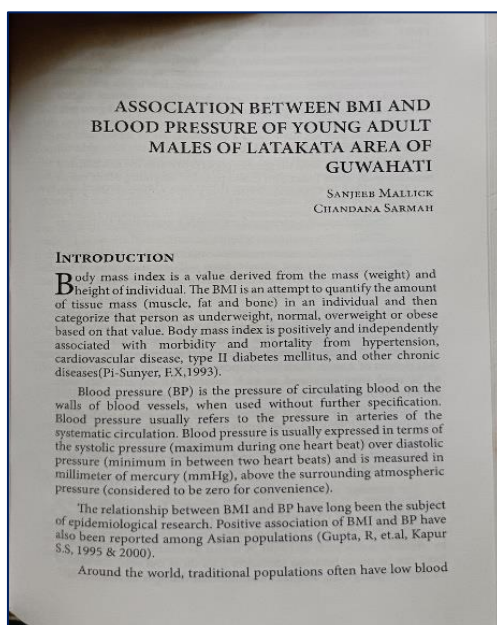
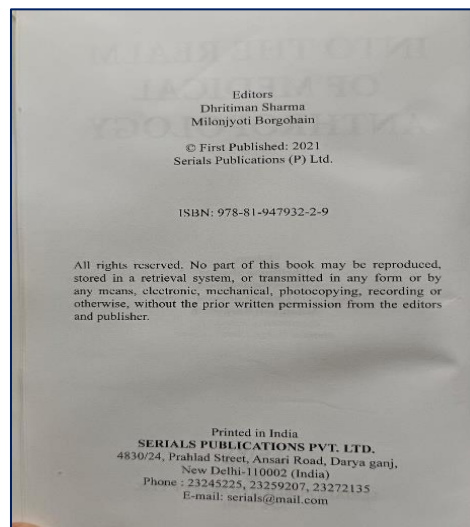
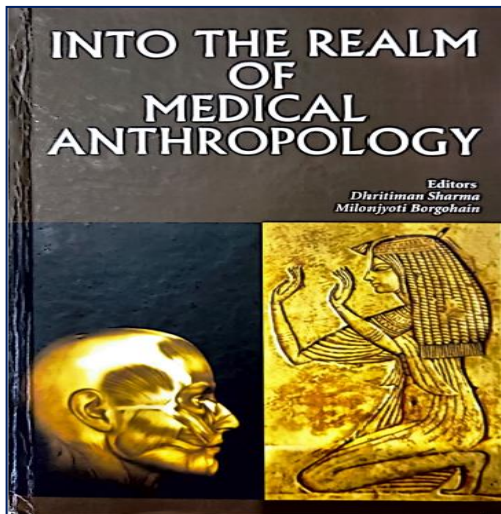
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19) Dr. Krishna Kanta Sarma: *Udvid Bigyan* (ISBN: 978-93-90942-15-2)



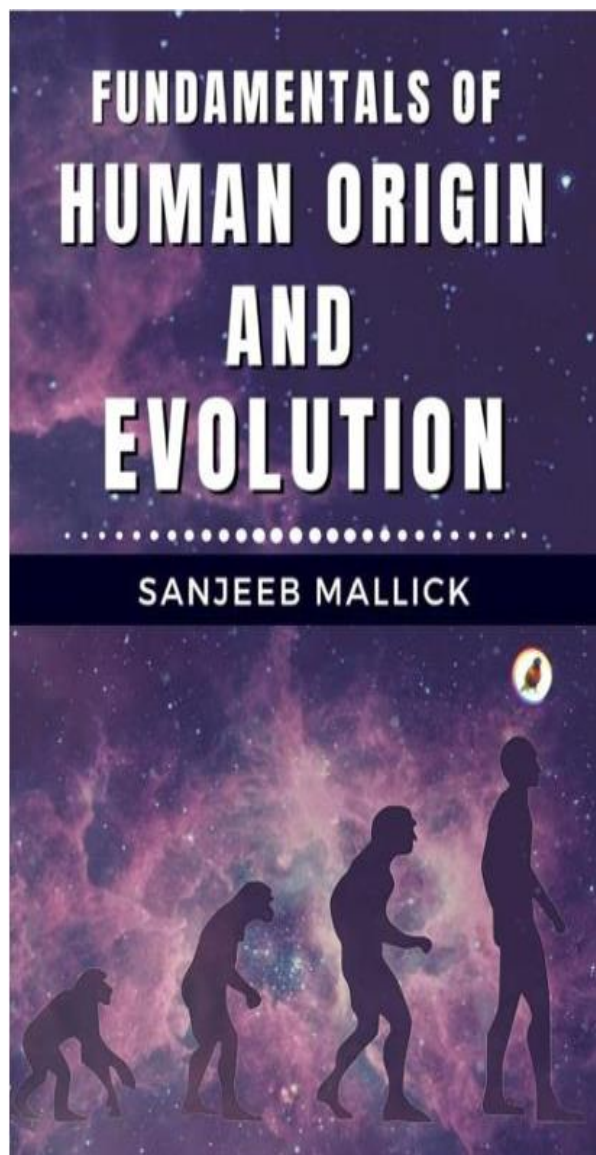
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20) Dr. Sanjeeb Mallick (2021-22)



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21) Dr. Sanjeeb Mallick (2021-22)



Fundamentals of Human Origin & Evolution focus on the perspective and approaches in human origin and evolutionary pattern. It mainly focuses on the position of man in primate on the basis of characteristic features and classification of primate. It also includes behaviour of nonhuman primate and human and to find out the difference between human and nonhuman primate. It discusses about the fossil primates and stages of human evolution as well as hominization process. It describes about the anatomical changes which occurred during the evolution. The study of human anatomy includes osteology, cranial osteology and post cranial osteology helps to understand the human characteristics features of different bones and also understand to compare the anatomy with nonhuman primate group.



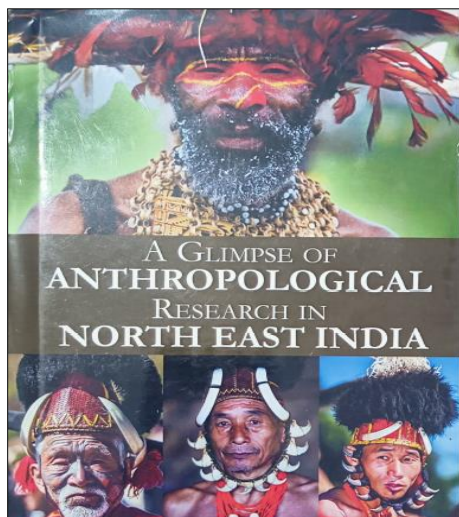
Sanjeeb Mallick (M.Sc, M.A, B.Ed) is an Assistant Professor (Non-provincialized) of Biological Anthropology at Department of Anthropology, Pragjyotish College, Guwahati, Assam, India where he has been teaching courses in General Anthropology, Physical/Biological Anthropology, Prehistoric Anthropology and Socio-cultural Anthropology.

He did his Post Graduation in Biological Anthropology from Gauhati University, Assam, in 2013 and also did his B.Ed from the same University in 2015. He also did his M.A in Sociology from KKHSOU, Assam, in 2018. He also did diploma in Human Resource Management and Behavioral Sciences from European Open University in February, 2021. Sanjeeb Mallick is an author of two edited books, number of research papers and articles in International and National referred and peer reviewed research journals and books. Currently, he is pursuing his PhD in the Department of Anthropology, Gauhati University, Guwahati, Assam.

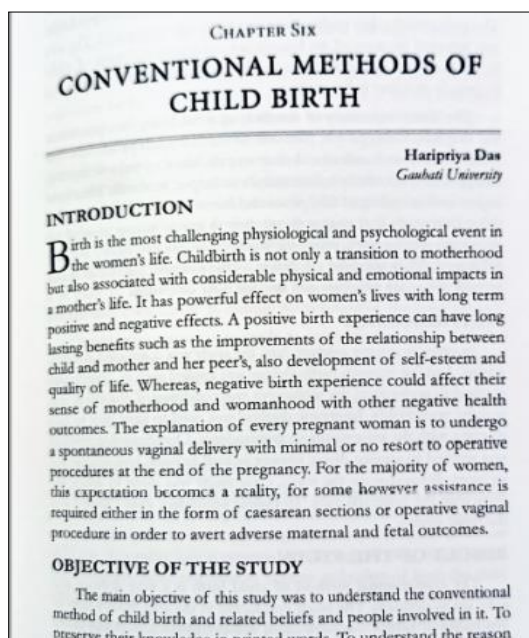


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22) Haripriya Das: Conventional Methods of Child Birth (2021-22)



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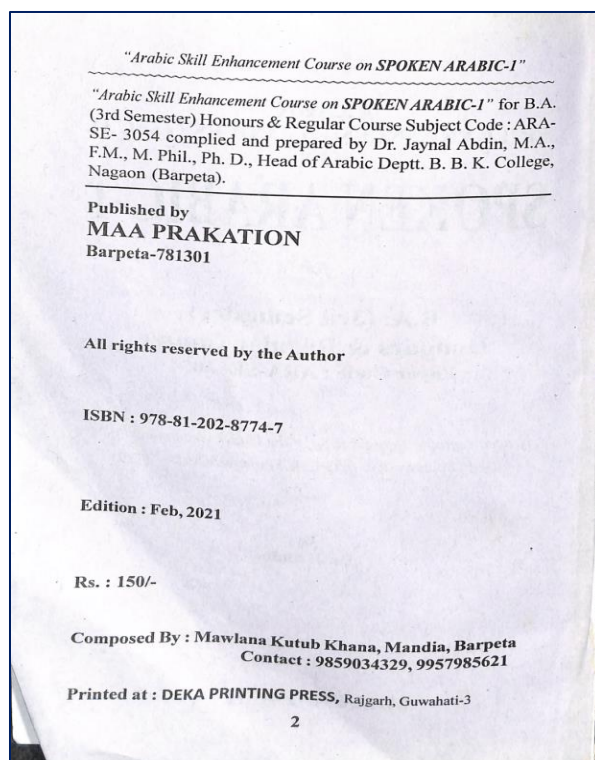
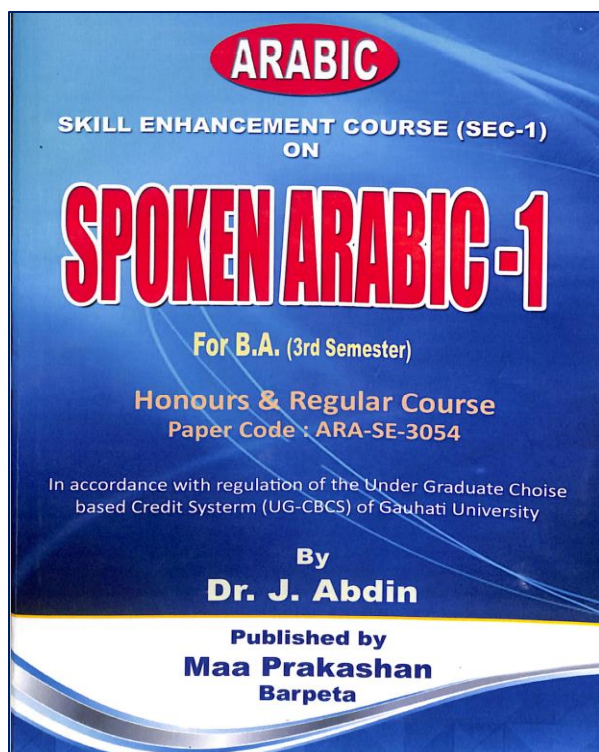


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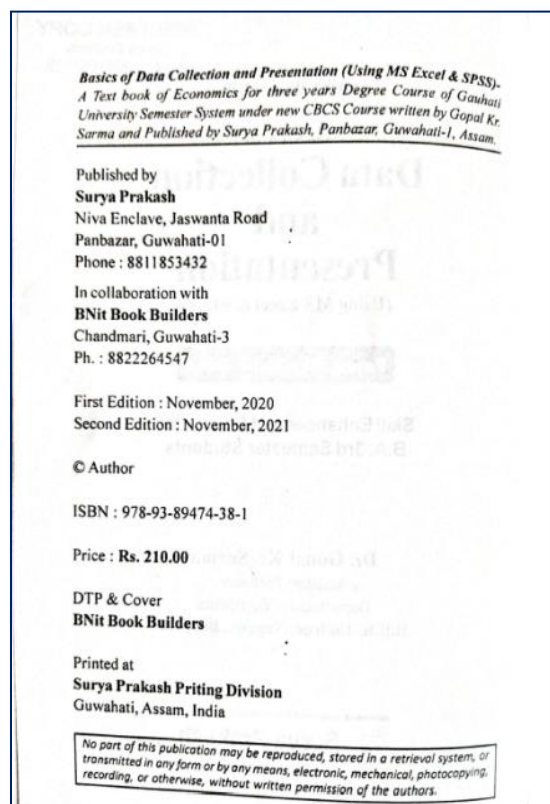
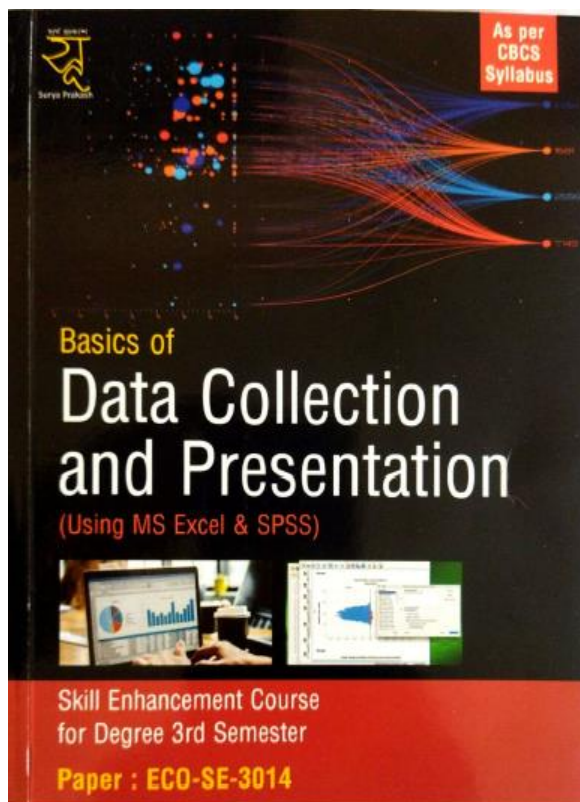
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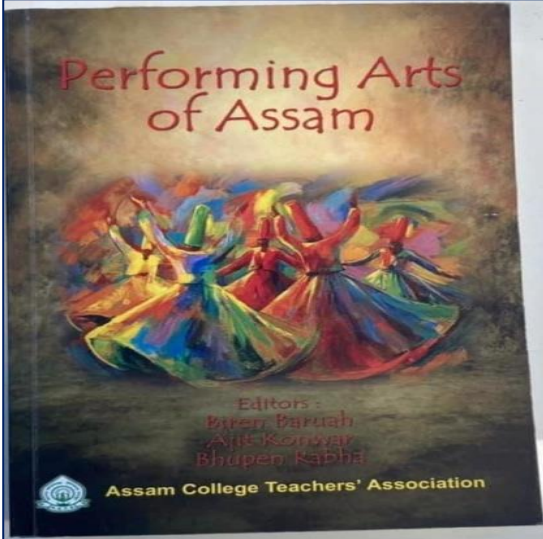
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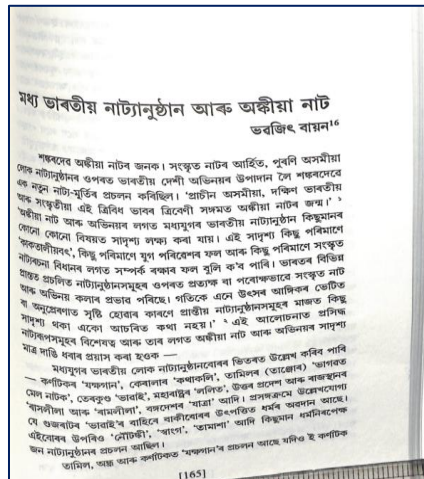
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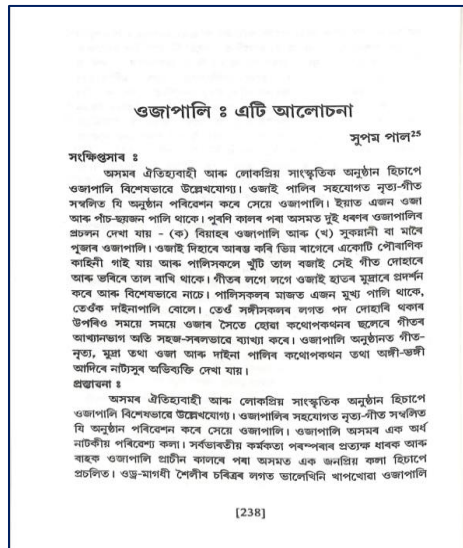
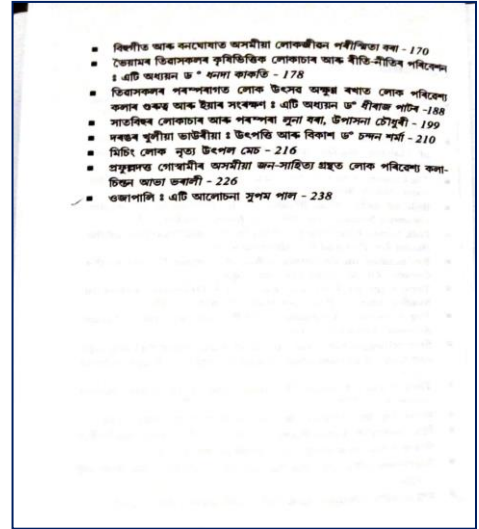
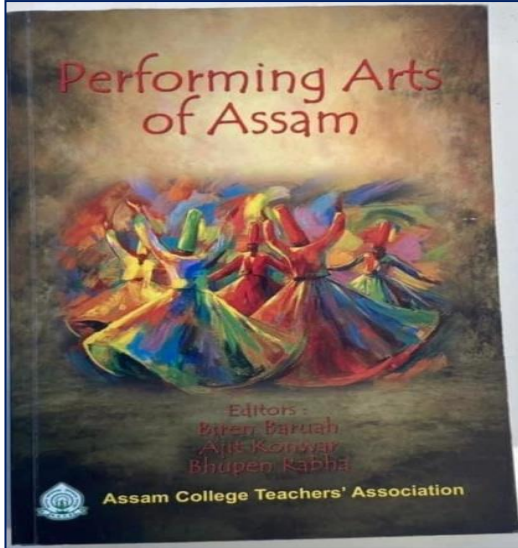
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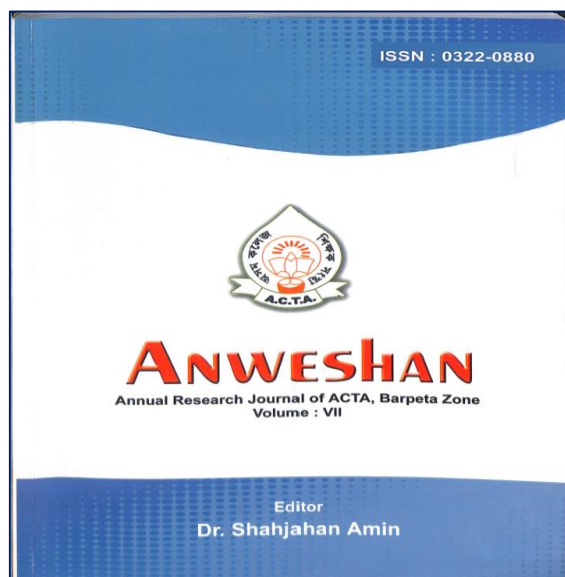


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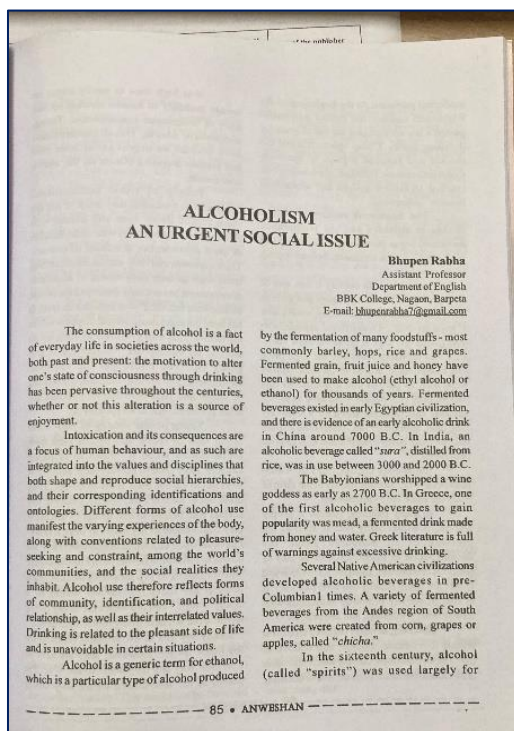
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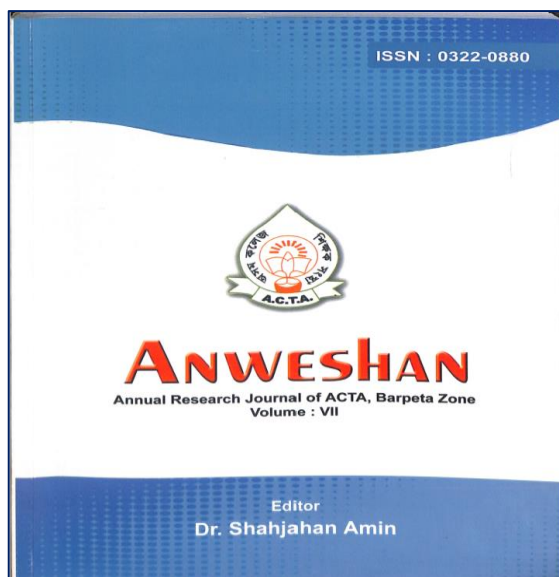


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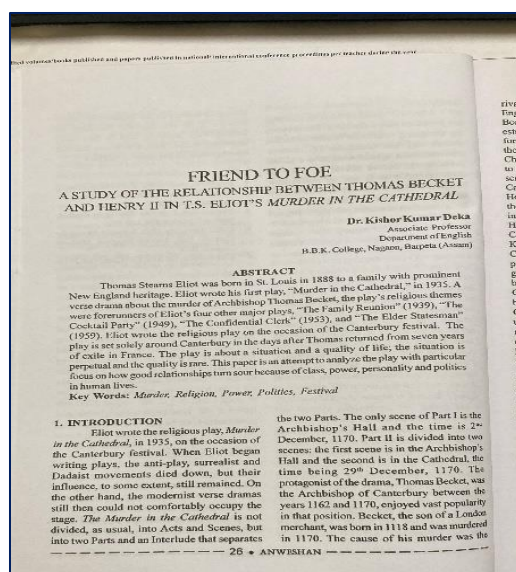


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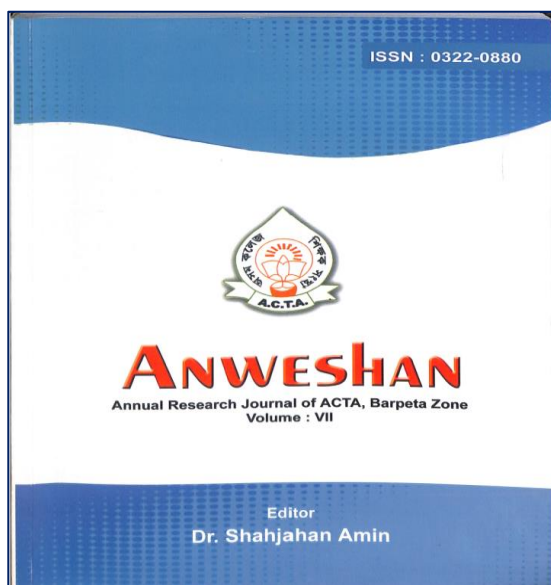


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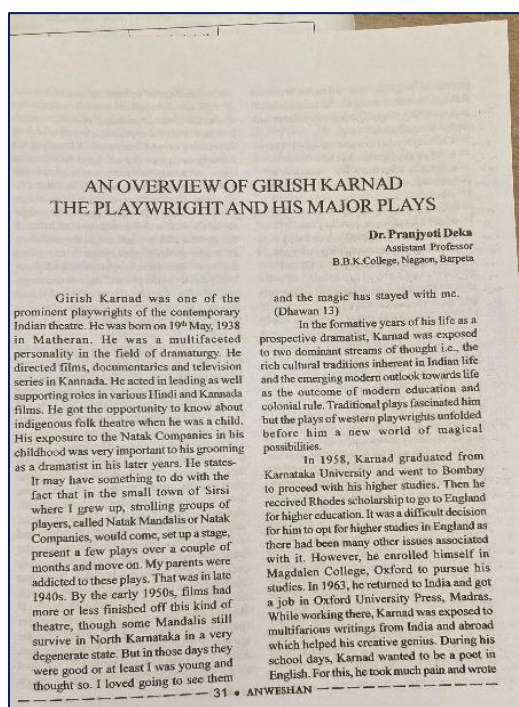


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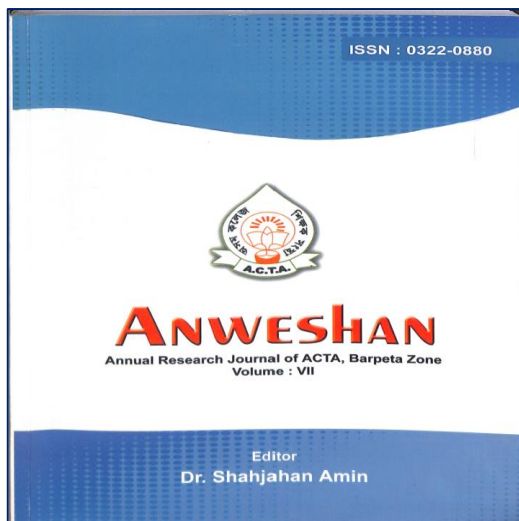


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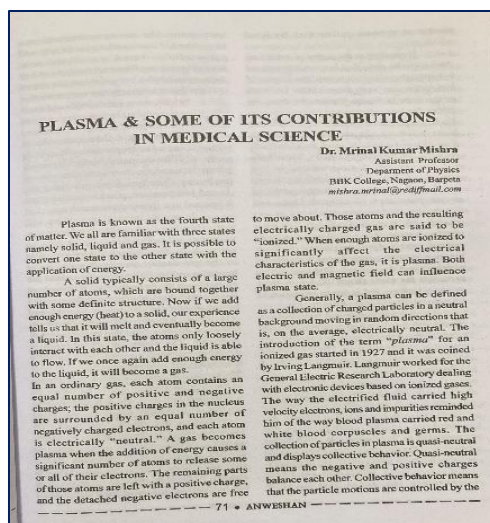


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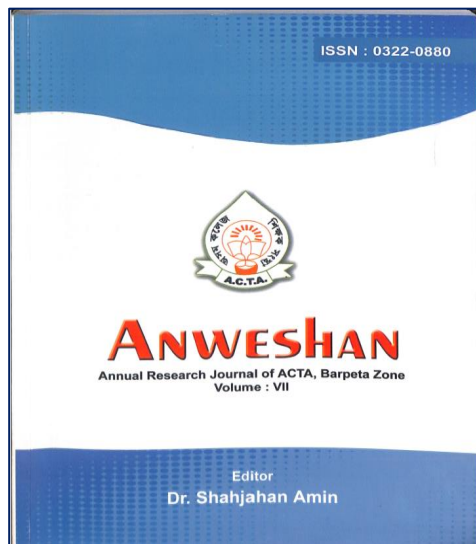


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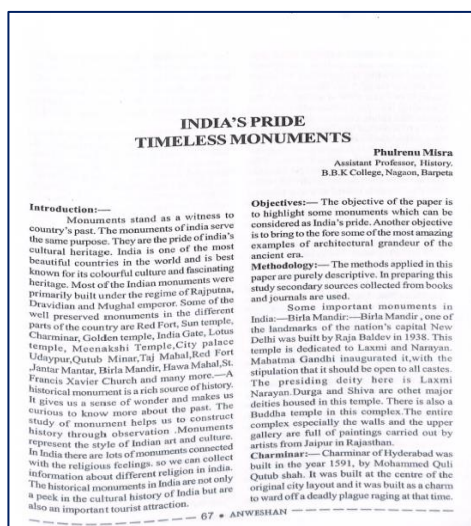


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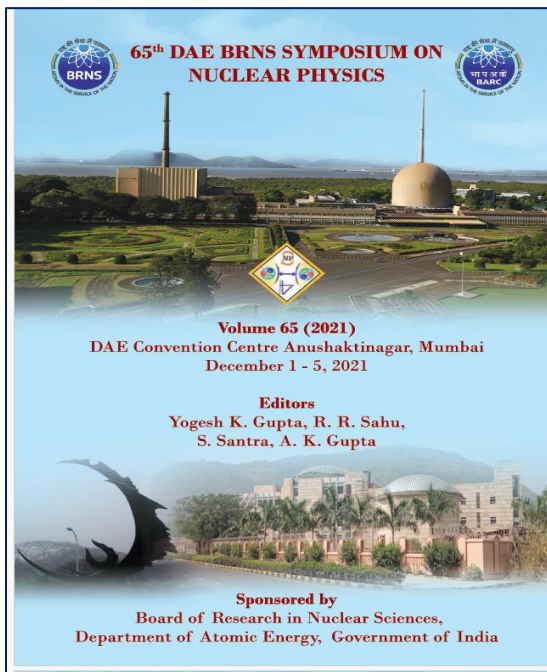


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Theoretical analysis of fusion excitation function measurement for $^{18}\text{O}+^{118}\text{Sn}$ system

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Introduction

Nuclear fusion cross section around the Coulomb barrier reveals varieties of phenomena. One such phenomenon is the enhancement of the sub-barrier fusion cross section as compared to the theoretical predictions of 1-D barrier penetration model (BPM) [1]. Such enhancement occurs due to the coupling of relative motion to internal degrees of freedom of the colliding nuclei such as deformation [2], vibration [3], nucleon transfer [4] and neck formation [5] between the two interacting nuclei. These couplings often lower the barrier height by modifying the one dimensional Coulomb barrier into multiple potential barriers which then cause enhancement of fusion cross-sections [6]. With the theoretical models available, these effects of inelastic excitations could be explained reasonably well within the quantum coupled channel (QCC) approach and the empirical coupled channel (ECC) approach [7]. However, the role of the neutron transfer on the heavy ion sub-barrier fusion is still not fully resolved. This is mainly because of the challenges to account for the intricate mechanism of transfer channels in the theoretical models, as the chargeless neutron, unaffected by the Coulomb barrier, can freely flow from one collision partner to the other even at large internuclear distances [8].

Neutron transfer plays a vital role in the enhancement, especially, for the systems having positive Q value of few neutrons transfer, as it causes a considerable shift in the barrier height [9]. A series of studies were done, eventually, to extricate the PION effect on the fusion cross section. It has been observed that a large enhancement of fusion cross-section below the uncoupled Coulomb barrier occurred due to neutron transfer channels for some of the fusing systems having positive Q-value for the transfer

channel. On the contrary, there are some systems having PION channels which do not show any enhancement of the sub barrier fusion cross sections [11]. Recently, fusion excitation function measurement was carried out for the $^{18}\text{O}+^{118}\text{Sn}$ system and has been observed that positive Q-value for the neutron transfer channels for this system plays the role behind the enhancement of the sub-barrier fusion cross section [10]. This was evident as in Fig. 1 when it was compared with the similar system [11] having negative Q-value in the reduced scale [9]. Here, in this work, theoretical analysis has been done further using semi-classical approach via ECC model of Zagrebaev et al. [7] to further ascertain the role of neutron transfer.

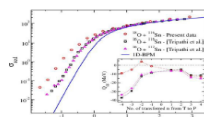
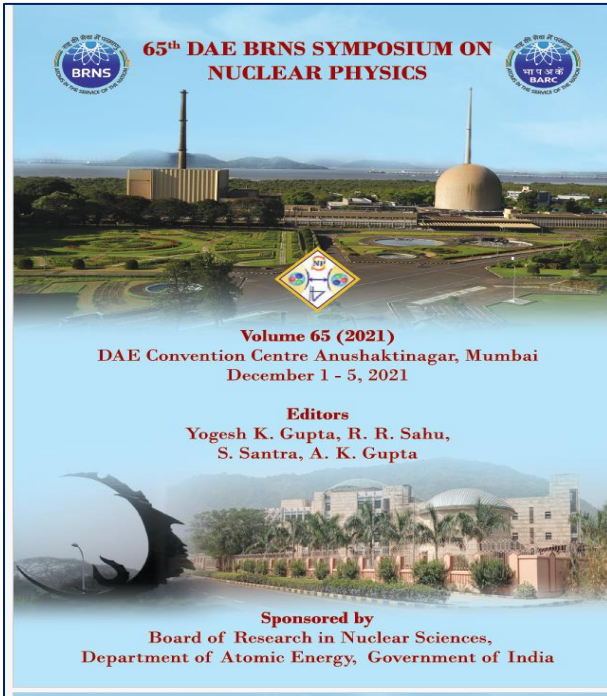


Fig. 1 Comparison of fusion excitation function for similar systems in reduced scales along with their Q-values for various neutron transfer in its inset.

This model includes inelastic as well as multi-neutron transfer channels for fusion cross-section calculations. In the ECC approach, the neutron rearrangement was consistently incorporated using the semi-classical approximation for the transfer probability [4].

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33) Harun Al Rashid (2021-22)



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Fusion suppression on nuclear reaction induced by loosely bound projectiles

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Introduction

Due to the availability of intense beams and the improved experimental facilities in the recent decades, a renewed interest has been developed towards understanding of fusion cross section [1]. In loosely bound projectiles like ^6Li , ^7Be , etc. emanates interesting phenomenon towards fusion reaction as separation energy of these nuclei are low and hence have high chances for breakup. As an instance, ^6Li breakup into $^3\text{H} + ^3\text{He}$ and ^7Be breaks up into $^4\text{He} + ^3\text{He} + n$ with separation energy 1.48 MeV, 1.67 MeV respectively. The breakup threshold energy in this case is low due to which the breakup probability of this nucleus as a projectile rises and hence forms the basis of numerous experiments. These projectiles directly break up when it is projected with certain energy towards the heavier target nuclei during fusion process. Such occurrences were observed in at least four different types of events: projectile fusing with target without breakup, a case of direct complete fusion (DCF); projectile breaking up into fragments which then later fuses with target, a case of sequential complete fusion (SCF); one of the breakup fragments fusing with target, a case of incomplete fusion (ICF); and none of the breakup products and the target fuse with one another, a case of no capture breakup (NCBU).

In such cases, theoretical cross sections are expected to be higher than the corresponding experimental values a phenomenon commonly known as fusion suppression.

Various versions of the classical model are available in the literature to explain the fusion suppression of systems involving weakly bound projectile. Classical trajectory model [1] can easily identify scattering, no-capture breakup and incomplete fusion. It can also be incorporated in the CDCC formalism. Modified version of this

model, classical dynamical model [2] developed later could determine the breakup of the projectile by empirically obtaining breakup probability function whose parameters are obtained from sub-barrier no capture breakup measurements. This method could successfully determine the breakup yields and the fusion suppression factors for a number of systems. In this paper, we will present a modified formula in place of the formula used by Pleschke et al [3] for the fusion suppression factor and then apply the same for the reactions $^6\text{Li} + ^{10}\text{B}$, $^{10}\text{B} + ^{10}\text{B}$ and $^7\text{Be} + ^{10}\text{B}$ whose fusion excitation data are available in the Refs. [4,5,6] and where fusion suppression is observed.

Theory

The three-body Lagrangian, as shown in equation 1, in two dimensions are constructed for the projectile and the target system with the assumption that the projectile is two-point particles [1]. The Wood-Saxon form of the nuclear potential is used here whose parameters were taken from optical model analysis of the elastic scattering data

$$L = \frac{1}{2} m_1 (\dot{q}_1^2 + \dot{p}_1^2) + \frac{1}{2} m_2 (\dot{q}_2^2 + \dot{p}_2^2) + \frac{1}{2} m_3 (\dot{q}_3^2 + \dot{p}_3^2) - V \quad (1)$$

And $V = V_{12} + V_{13} + V_{23}$

The detail about the interaction potential is taken from Ref. [2].

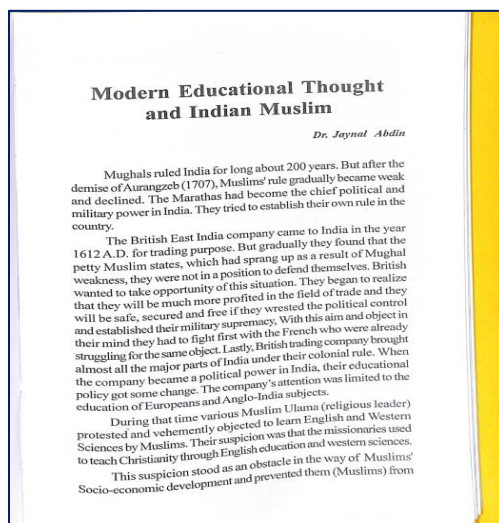
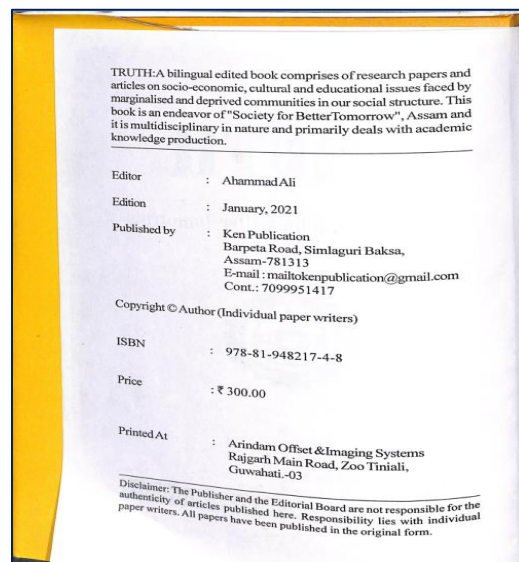
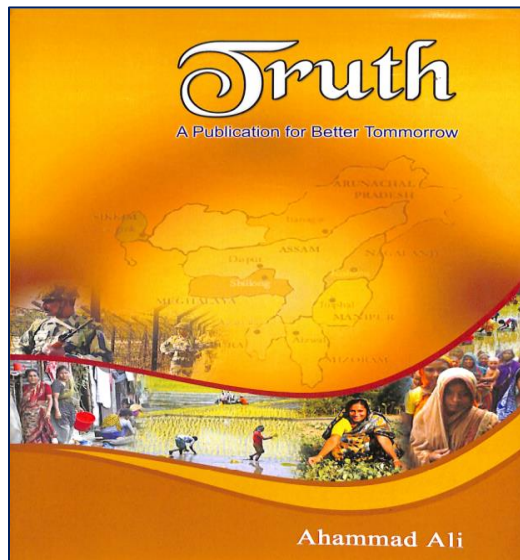
Methodology

The difference between theoretical and experimental cross section (Fusion suppression) is due to the fraction of projectile break-up near the heavy target. For large number of trajectories, we define breakup fraction as

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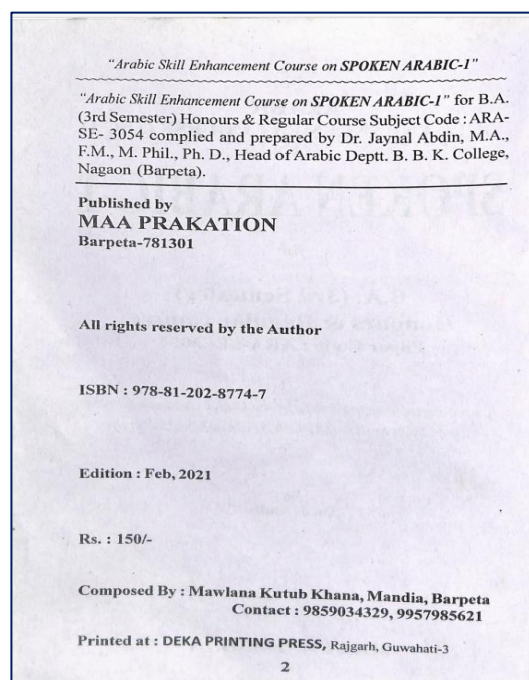
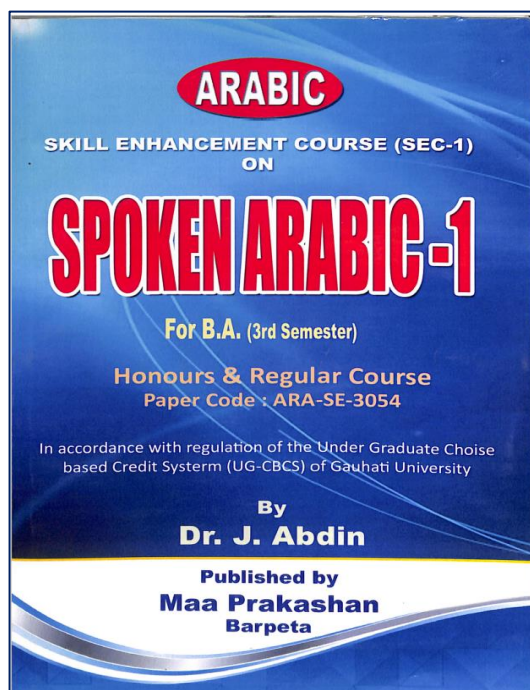


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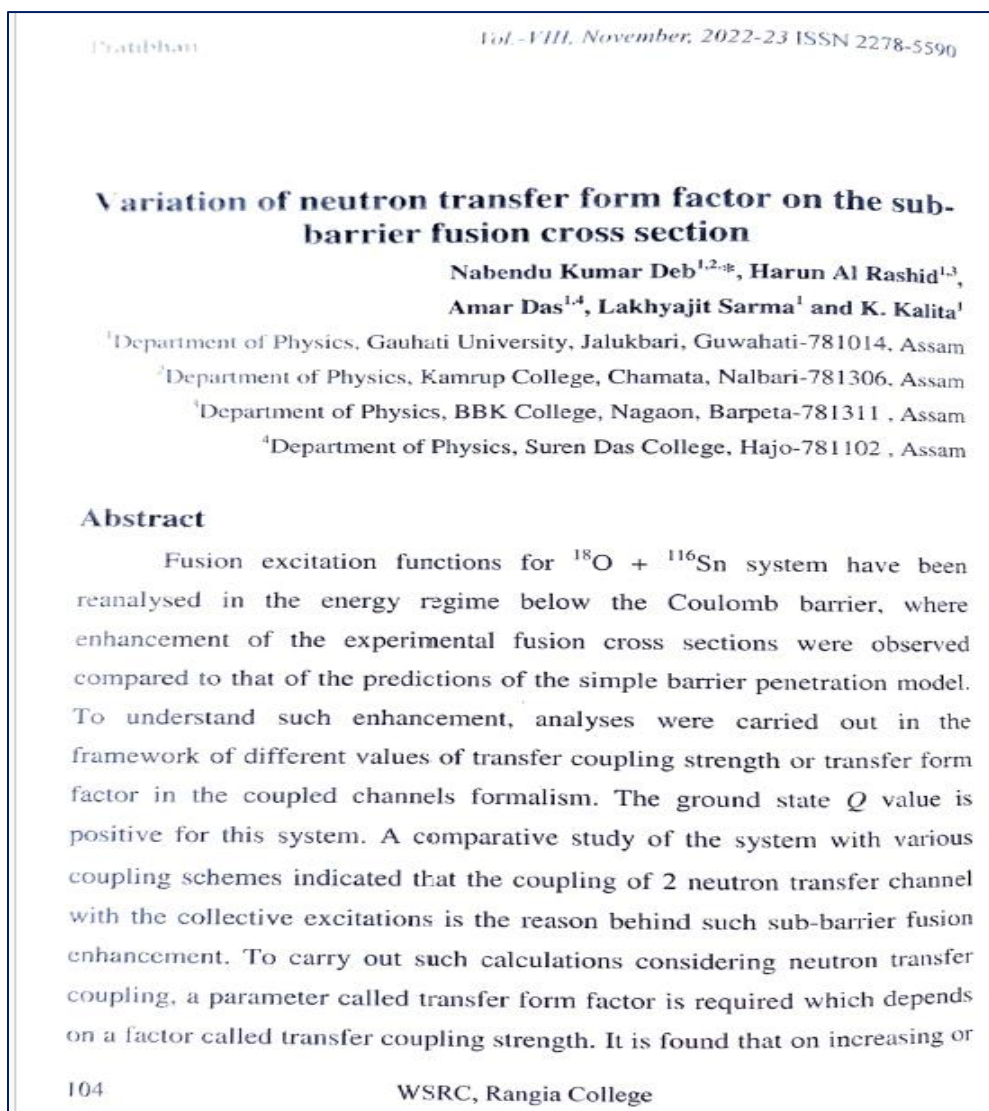


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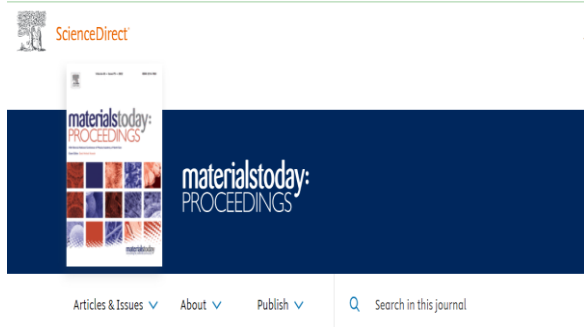


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Structural, optical and frequency dependent dielectric studies of nanoscale $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ processed non-aqueous route



1. Introduction

Nuclear reaction studies require a good quality and homogeneous target with uniform thicknesses [1], which poses an ardent challenge during its fabrication. To study heavy-ion induced nuclear reactions with ^{60}Fe and ^{100}Sn elements using mass analyzer, where the reaction products of different masses are dispersed at its focal point with good mass resolution, thin self-supporting targets are preferred. To measure Fusion Excitation Function [2,3] and to study the role of various entrance channel parameters viz., mass-asymmetry of the system, target deformation etc. on the incomplete fusion dynamics [4]; a series of experiments were to be done to perform excitation functions and Forward Recoil Range Distribution (FRRD) measurements using the alpha and non-alpha clusters ion beam with enriched ^{140}Sm and ^{140}Nd targets. Through these measurements, a systematic study of low-energy fusion in these systems will be carried out to observe the effect of target deformation on incomplete fusion dynamics and hence a comparative analysis will be carried out. The Sm and Nd isotopes that are considered here consist of the pair of both deformed and spherical nuclei. The measurements with these systems are yet to be done which will contribute in the development of a theoretical model to explain incomplete fusion dynamics which is still an unresolved area of investigation [4]. Thermal evaporation techniques or resistive heating methods are the most effective methods to obtain such thin self-supporting targets [5]. But due to certain experimental limitations, target materials are evaporated on a thin lower Z backing material (e.g. carbon foil ($\approx 30 \mu\text{g}/\text{cm}^2$) through which the energy loss and

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Abbreviations: FRRD, Forward Recoil Range Distribution; RIAC, Inter University Accelerator Centre; TQ, Thermal Evaporation; TPL, Turbopump based coating Unit; LH, Liquid Nitrogen; e-gun, electron gun; SEM, The Scanning and Range of ions in Matter; RBS, Rutherford Back Scattering; RIMP, RBS Universal Master File; ER, Evaporative Residue; TGF, Time of Flight.

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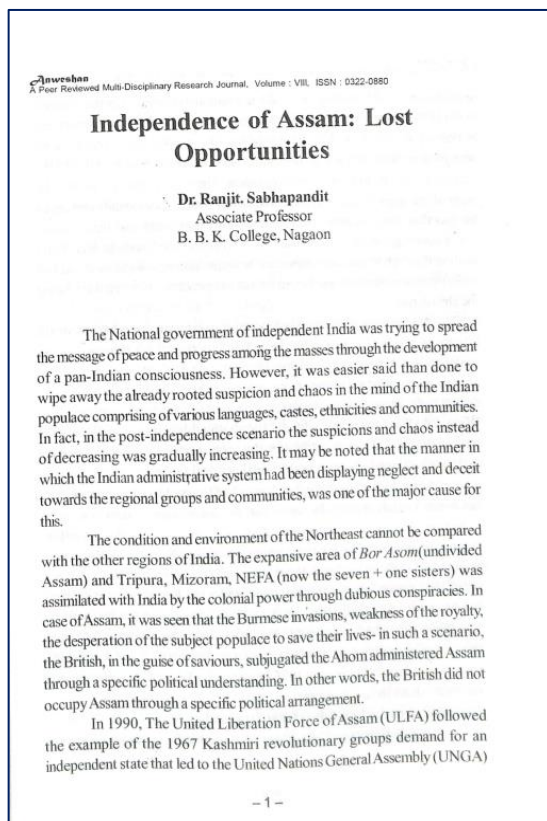
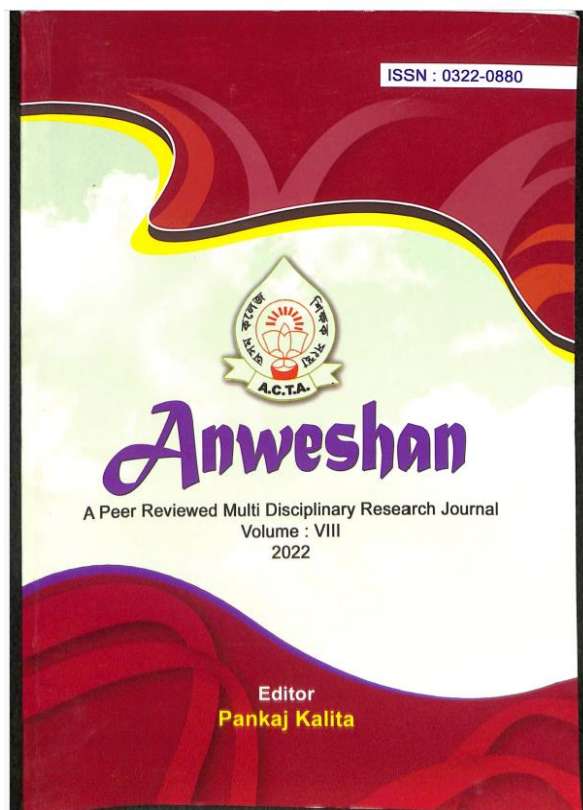
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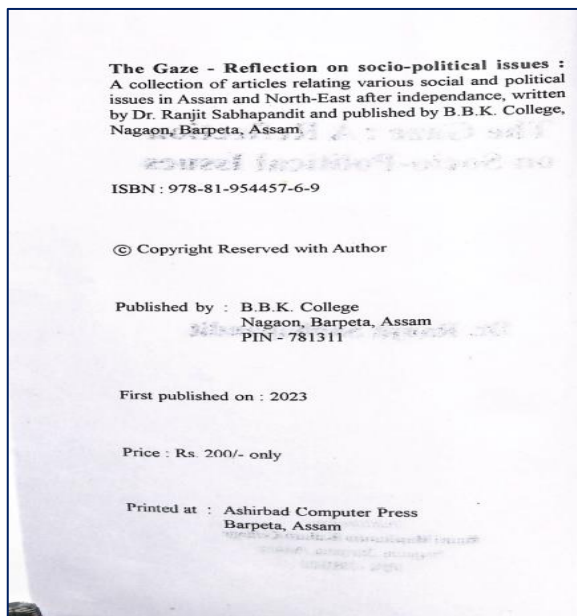
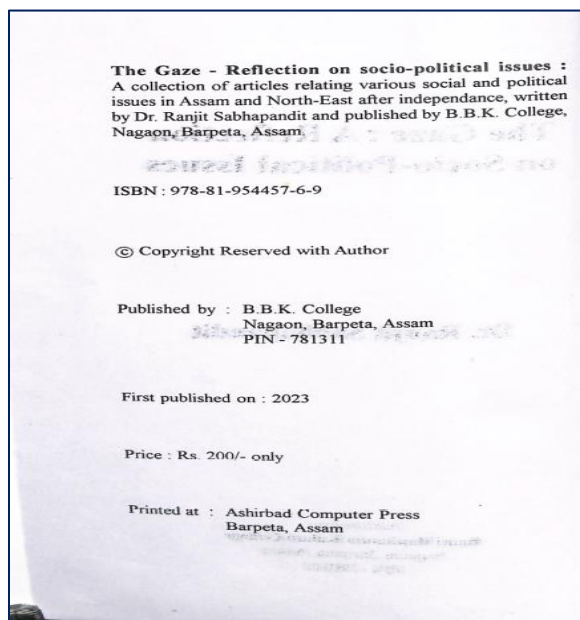
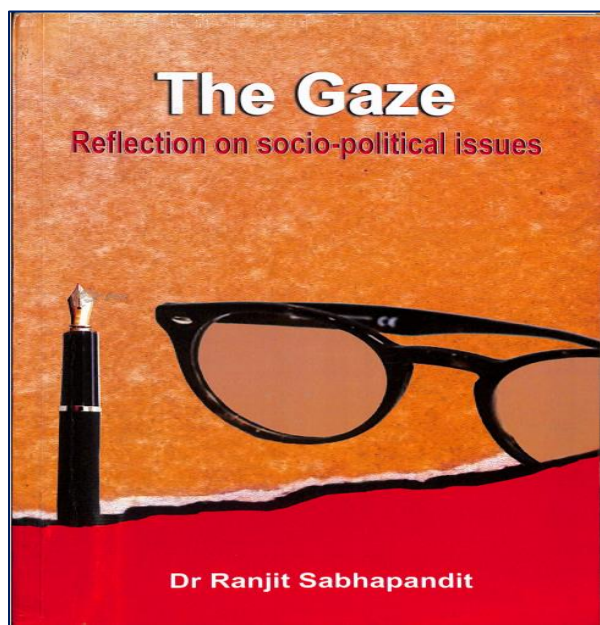


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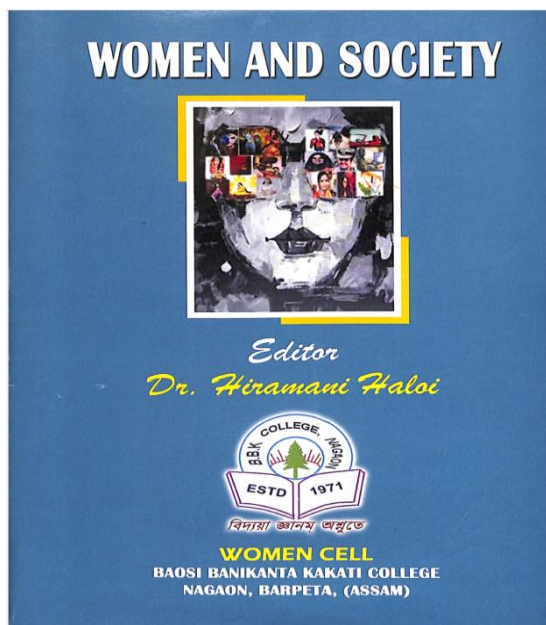


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Women Empowerment : A Necessary Tool

Prabha Kumari Devi

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"Women are the largest untapped reservoir of talent in the world." - Hilary Clinton

Now-a-days there are some controversies around the word feminism. Those arise only when one does not understand the true meaning and motive behind the term. Feminism is the advocacy of women's rights based on the equality of the sexes. It is an interdisciplinary approach to issues of equality and equity based on gender, gender expression, gender identity, sex, and sexuality as understood through social theories and political activism.

Our society being traditionally patriarchal, women have always been given a secondary status which is reflected in the economic, social and political spheres. However, women equality and empowerment has always remained a priority area for the modern world. Different organisations are taking various initiatives to encourage more and more women to participate in all operations starting from very small businesses to world's leading domains.

Empowerment refers to a situation where the powerless gain greater control over resources and ideologies.

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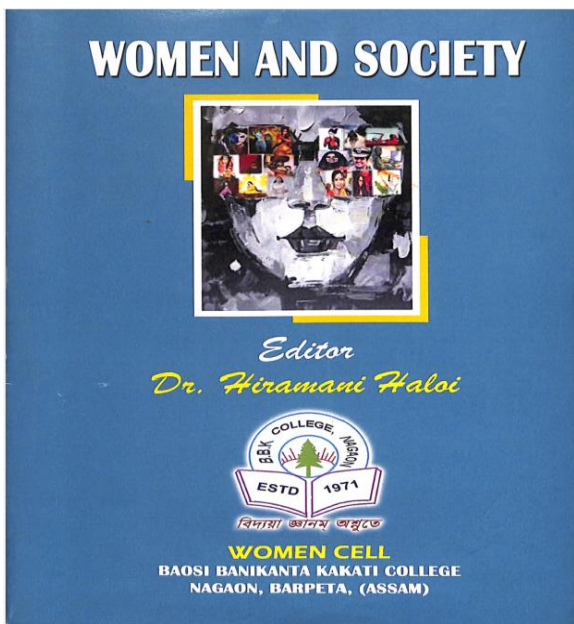


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Media and Women Empowerment in Assam

Dr. Hiramani Haloi

Assistant Professor

Department of Assamese, BBK College, Nagaon

Media can be a powerful tool for women's empowerment when used in a responsible and inclusive way. By promoting positive representations of women, highlighting their issues, and amplifying their voices, media can contribute to creating a more gender-equal world. The word "empowerment" emerged from Spanish word empoderamiento – those who were financing in women's projects adopted the term demanding empowerment as a part of project. The empowerment of women is an active process enabling women to realize their full identity and power in all spheres of life. The concept of empowerment incorporates a thought of empowering people either in the form of individual or group who have facing the challenges of social and economic deprivation. M.K Gandhi gave great importance to women's education and empowerment. He stressed that equal opportunity should be given to both men and women for acquiring knowledge and skills. Over the decades, Indian women have proved that if given the opportunities and access to strategic resources, they can enter and excel in every possible field. But the fact remaining that the benefits of development could be enjoyed by only a small portion of Indian female population. A carefully planned mass media strategy is of critical importance for women's empowerment

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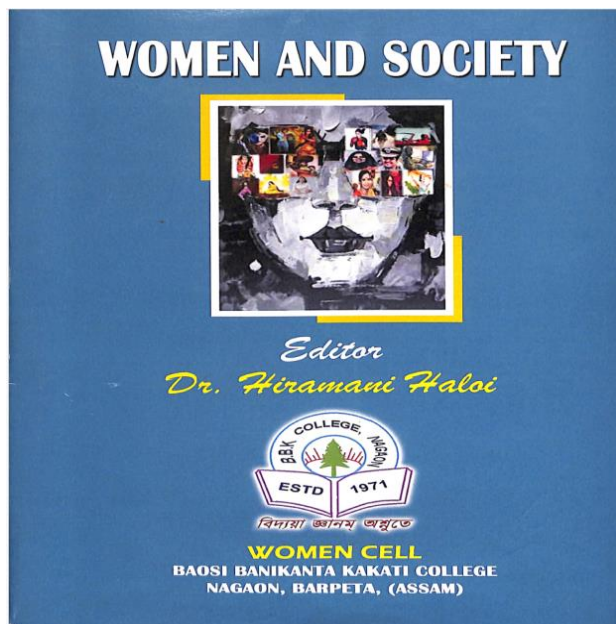


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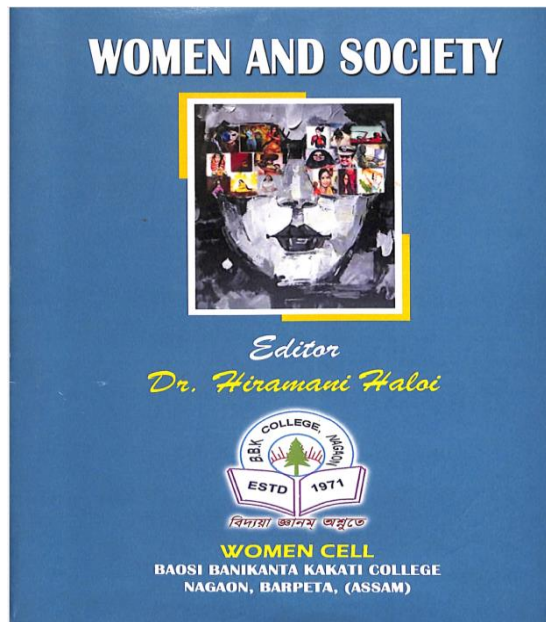
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Introduction

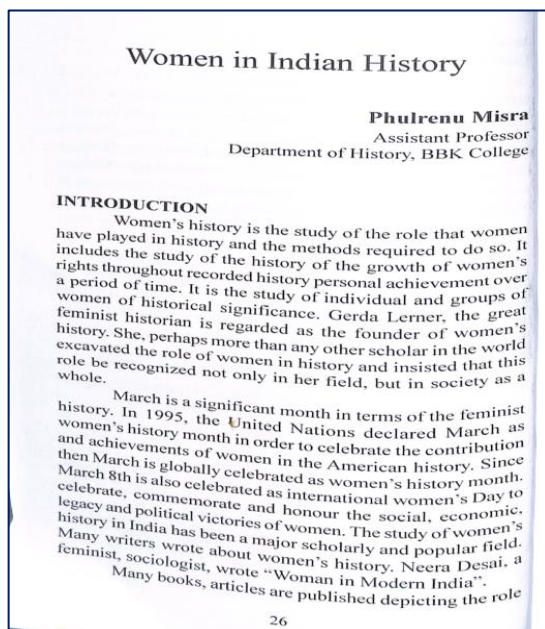
This paper is based on the fact that economy of a nation can be improved only when the quality of life of the citizens of a nation can be effectively improved only by raising the standards of living of the people on the street and in backward areas. In India like in many other developing countries women plays a very important role in the upliftment of the nation in all the aspects like social, political, economical and legal. Empowerment means control over material assets, intellectual; resources & ideology this involves ability to get what one wants & to influence others on our concerns with reference to women the power relation that has to be involved includes their lives at multiple levels, family, community, market, & the state. The question surrounding women's empowerment the condition and position of women have now become critical to the human rights based approaches to development. Empower the women in social, political, economical and legal aspects became necessary to convert the idle society into self sustainable society. Women

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45) Phulrenu Mishra (2022-23)

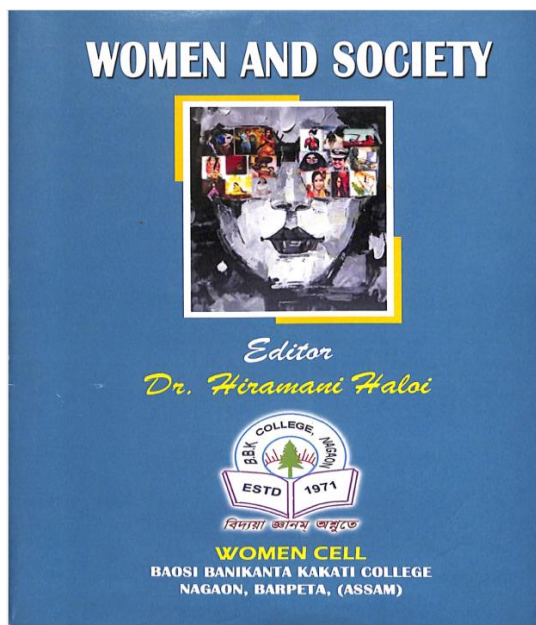


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46) Kabyashree Phukan (2022-23)



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Women in medicinal research, challenges and government approach

Kabyashree Phukan

Assistant Professor

Department of Zoology, BBK College

Biological research is a constantly evolving field that contributes to the understanding of various diseases and their diagnosis. Women have been making significant contributions to this field for many years, with their research paving the way for better diagnosis and treatment of diseases. This article aims to highlight the contribution of women in biological research and their approach towards the diagnosis of diseases. Historically, women have been underrepresented in scientific research, particularly in the fields of biology and medicine. However, women have been making significant contributions to these fields for many years, and their work has led to breakthroughs in the diagnosis of diseases. One such example is Dr. Rosalind Franklin, who played a crucial role in the discovery of the structure of DNA. She used X-ray crystallography to produce images of DNA that were essential in determining its structure. Her work was instrumental in the development of diagnostic tools that have transformed the field of medicine.

Today, there are many women who are actively involved in biological research and are making significant contributions towards the diagnosis of diseases. For instance, Dr. Jennifer Doudna, a biochemist at the University of California, Berkeley, developed the CRISPR-Cas 9 gene

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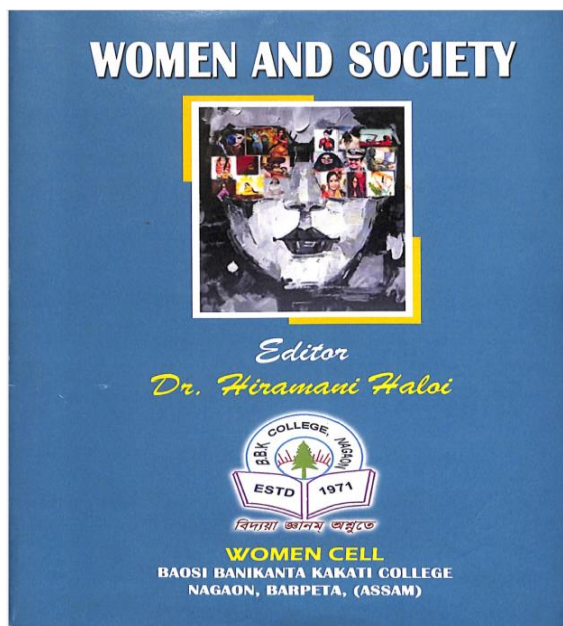


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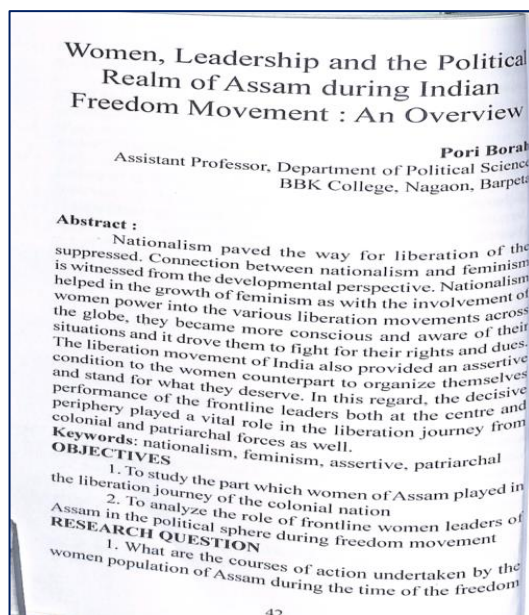
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47) Pori Borah (2022-23)

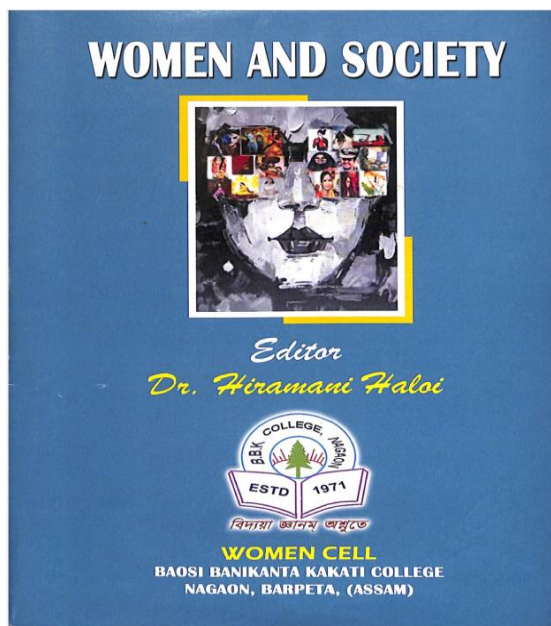


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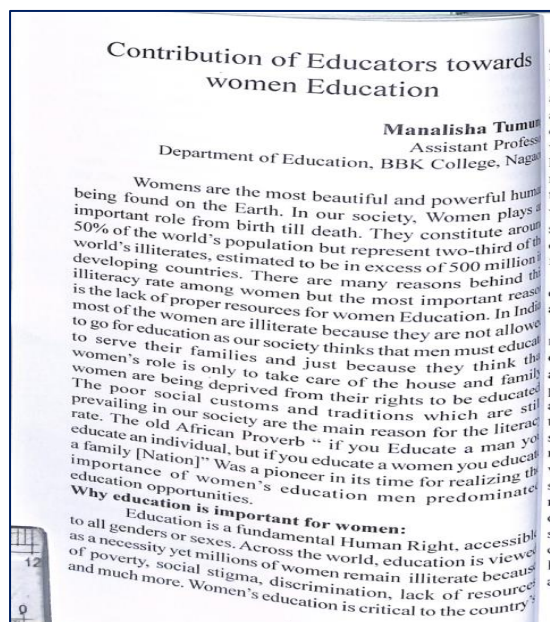


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48) Manalisha Tumung (2022-23)

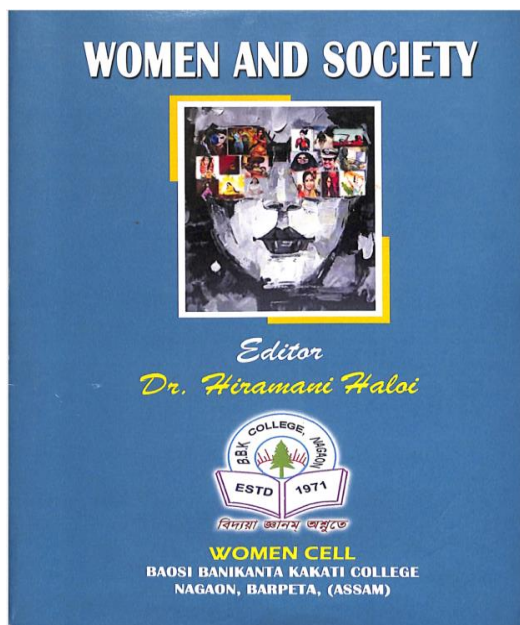


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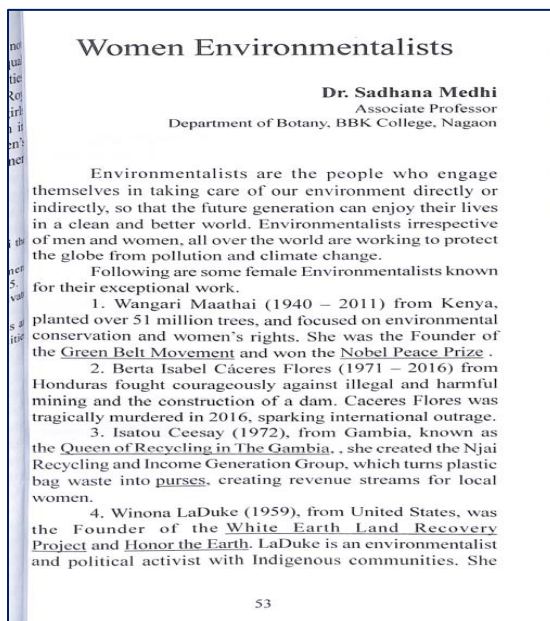


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49) Dr. Sadhana Medhi (2022-23)



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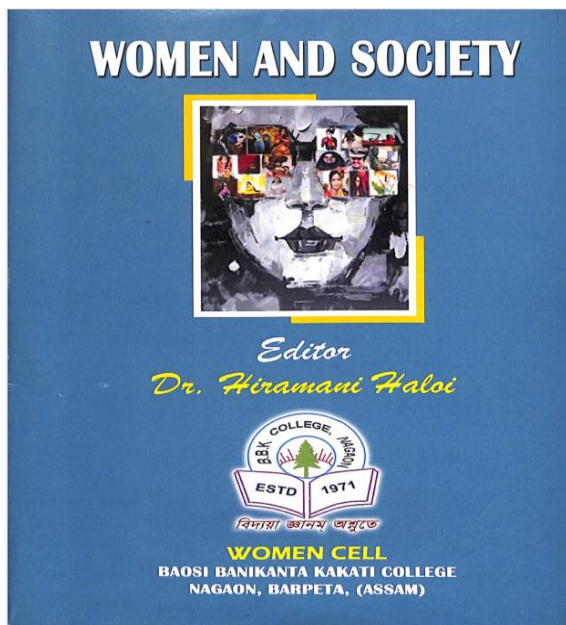


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50) Serdihun Teronpi (2022-23)



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Women role in the environment: An overview of Chipko movement

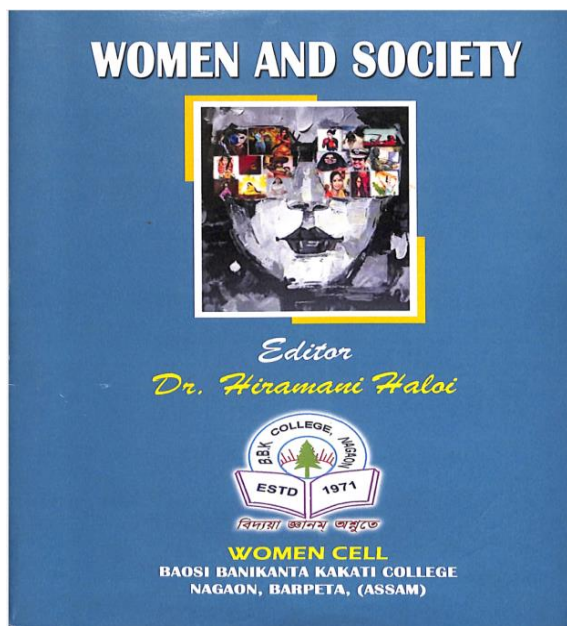
Serdihun Teronpi
Assistant Professor, Department of Botany
B.B.K College, Nagaon, Barpeta

A woman has an immense part to play in the environment, no less than her male counterpart. The notion that a man's contribution to the society is more important and fruitful than a woman, does not hold good in today's world. If given equal opportunities and support, a woman has reportedly been more successful and thriving than a man. After all, held-back people learn the most, and do the most, for motivation drives them to achieve the unachievable. Struggles and outcries of oppressed women in the past have prompted the society to notice them and realize how quietly and patiently they borne all responsibilities and tortures until they could take no more. And as time passed by, the world realized how wrong they were to ever suppress the ingenious ideas and the latent flair that eventually shone bright and took development to the next level. At the First World Conference on Women held in Mexico-City in the year 1975, Vandana Shiva commenced the discussion of women and the environment. During the conference women's role in agriculture and their extent of contribution began to come to light.

Women in the developing world are predominantly responsible for management and conservation of resources for their families. Women spend vast amounts of time collecting and storing water, securing sources of fuel, food and fodder, and managing land — be it forest, wetlands or

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51) Rashmi Rekha Das (2022-23)



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Women empowerment in India

Rashmi Rekha Das

Assistant Professor,
Department of Political Science, BBK College

Abstract :

Women Empowerment is a debatable subject. Women Empowerment means promoting women in their social and economic development, providing them equal opportunities of employment, education, economical development and allowing them to socialize, the freedoms and rights that were defined before it is a process which empowers women to know that they too can achieve their aspirations as the men of the society and help them do that. Women empowerment refers to making women powerful to make them capable of deciding for themselves. It refers to the activities undertaken to improve the social, economic, and political status of women in the world. Women empowerment simply refers to having the equal rights a men should have. The empowerment of a women can be termed as the ability to become a source of self independence. It gives the self to grow in their ability to move freely within the society. Women empowerment helps in improving the standard of life of women in rural as well as urban areas.

Introduction :

The origin of the concept of empowerment go back to the civil rights in the USA in the 1960. Since the mid 1980's the term empowerment has become popular in the field of development, especially in reference to women. The word "women empowerment" implies that women are not powerful enough, they need to be empowered. In Indian male dominated society, emphasis is being given on women empowerment to reduce gender discrimination. In modern era, it is very

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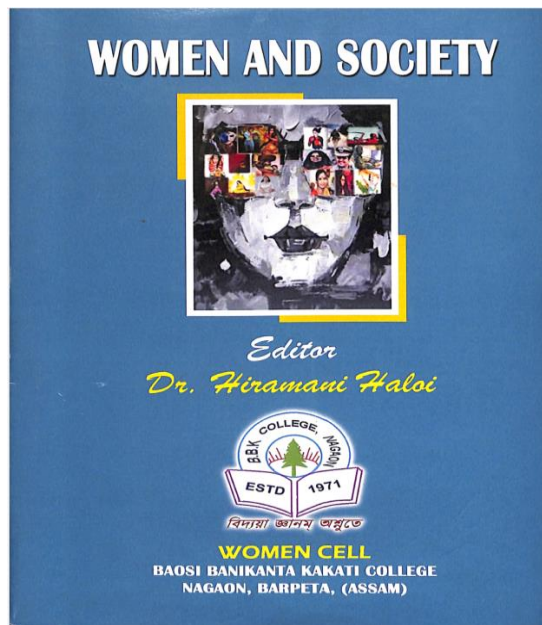


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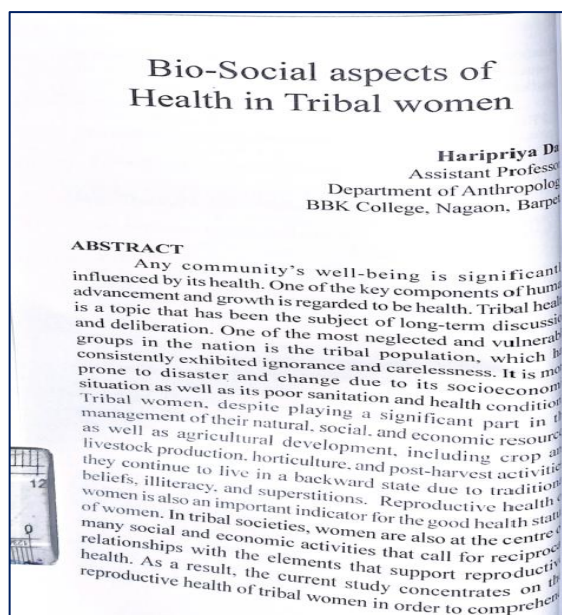
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52) Haripriya Das (2022-23)

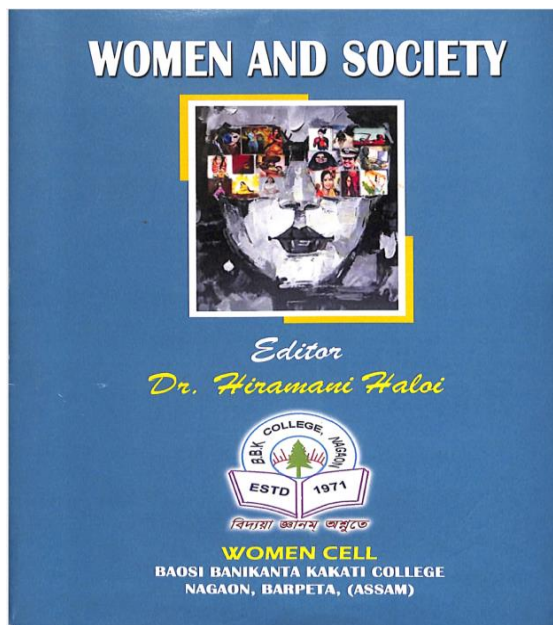


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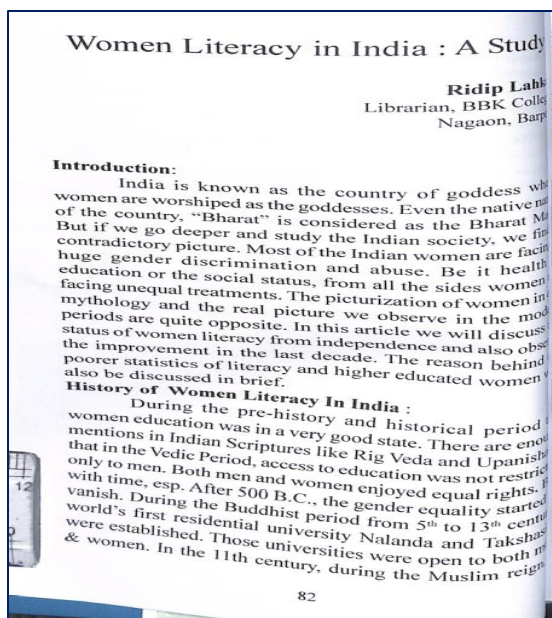


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53) Ridip Lahkar (2022-23)



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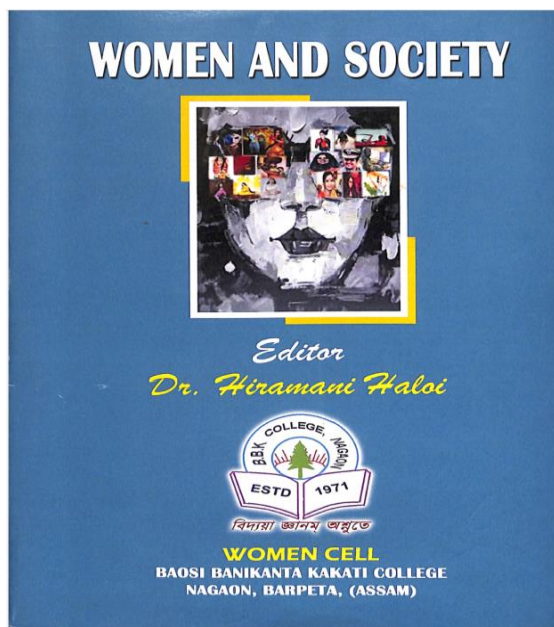


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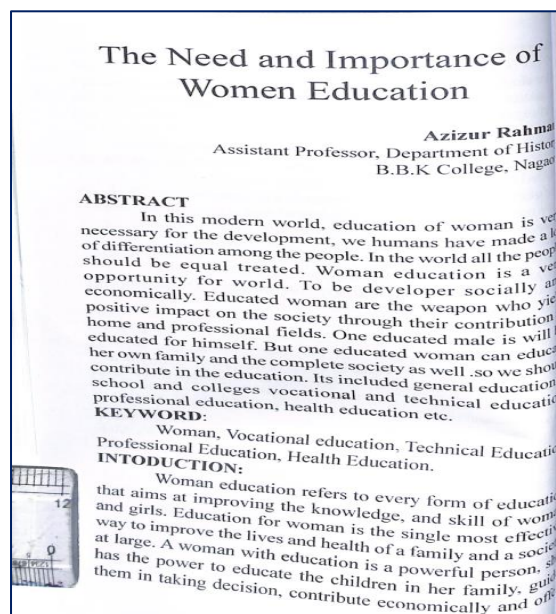
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54) Azizur Rahman (2022-23)

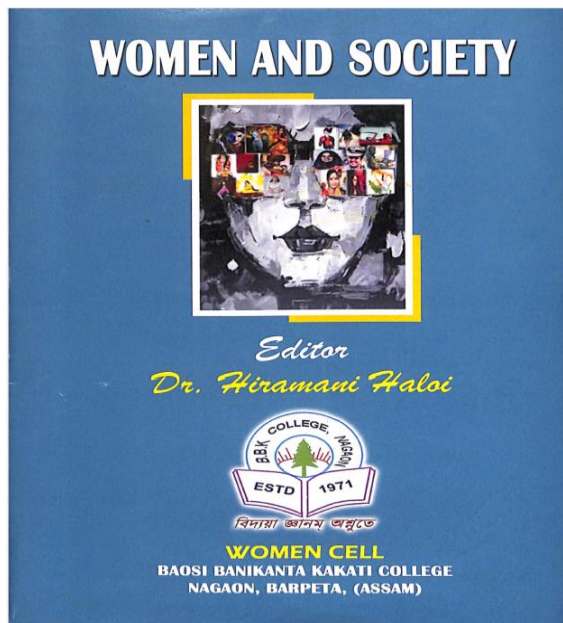


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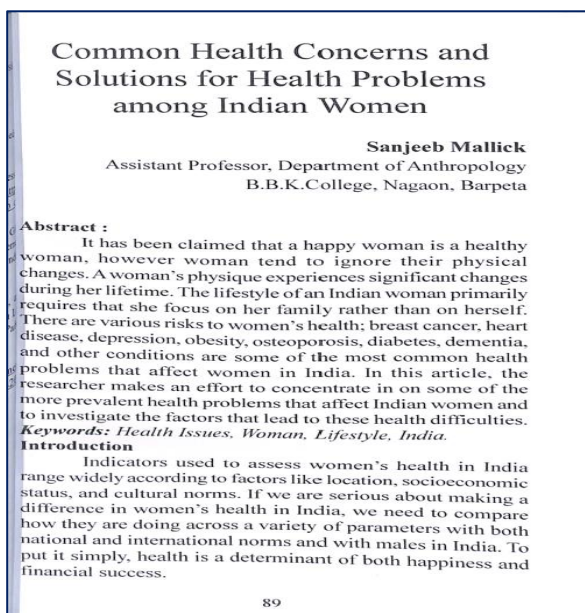


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55) Sanjeeb Mallick (2022-23)

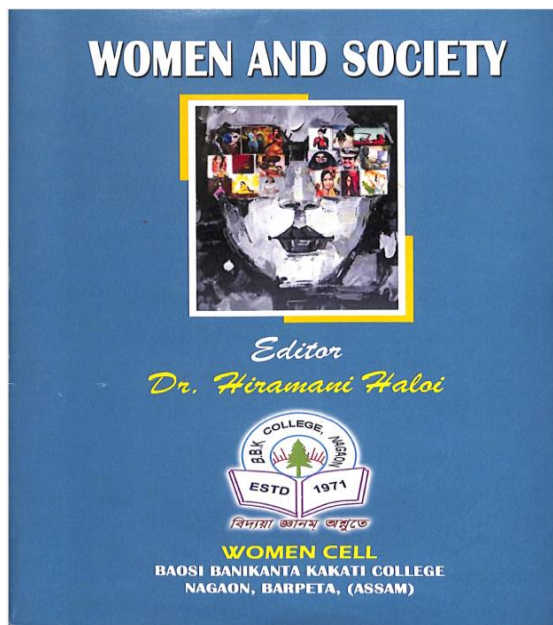


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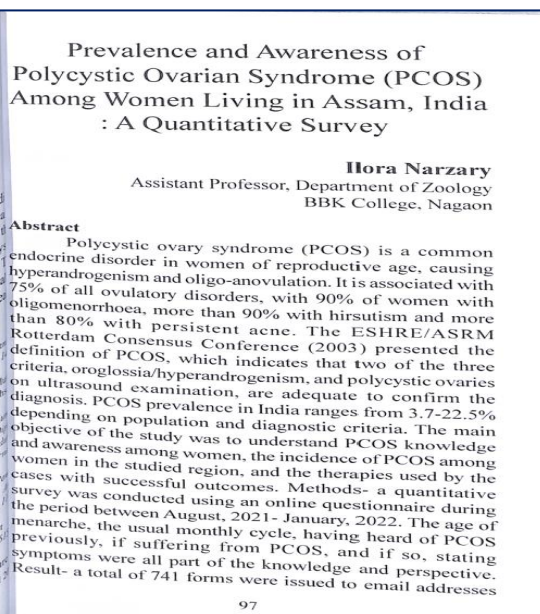


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56) Illora Narzary (2022-23)

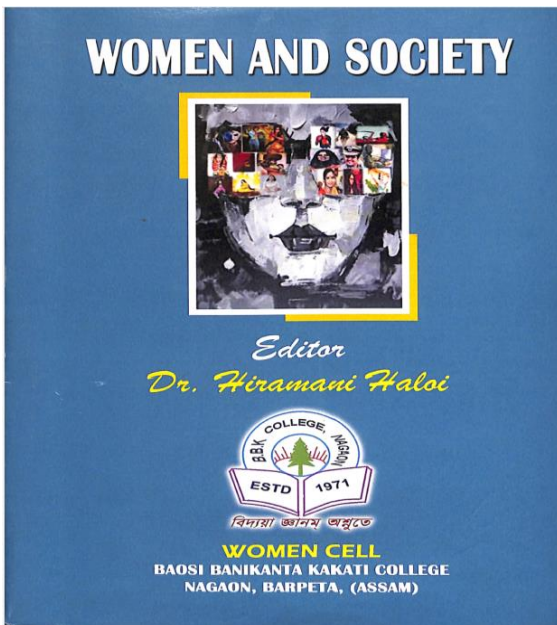


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57) Dr. Manalisha Deka (2022-23)



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PHOBIA - A Mental Disorder

Dr. Manalisha Deka
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A mental disorder is characterized by a clinically significant disturbance in an individual's cognition, emotional regulation, or behaviour. It is usually associated with distress or impairment in important areas of functioning. There are many different types of mental disorders. Mental disorders may also be referred to as mental health conditions. There are many different categories of mental disorder such as anxiety disorder, Mood disorder, Psychotic disorders, personality disorders, Eating disorders, Sleep disorder, Sexual disorders etc.

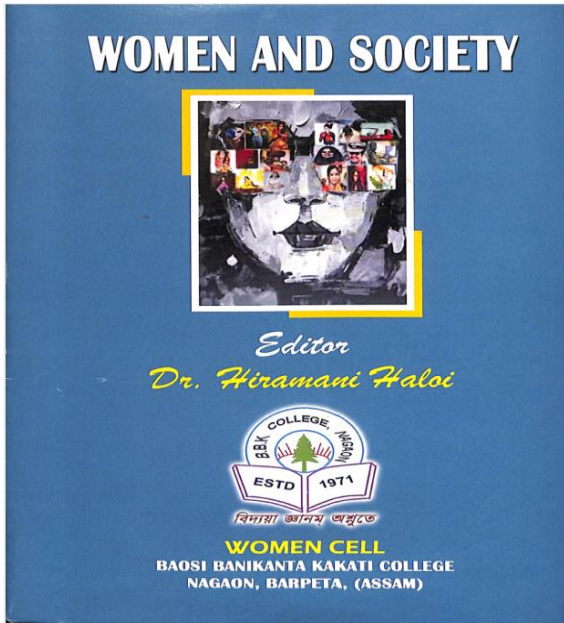
In 2019, 1 in every 8 people, or 970 million people around the world were living with a mental disorder, with anxiety and depressive disorders the most common. In 2020, the number of people living with anxiety and depressive disorders rose significantly because of the COVID-19 pandemic. Initial estimates show a 26% and 28% increase respectively for anxiety and major depressive disorders in just one year. While effective prevention and treatment options exist, most people with mental disorders do not have access to effective care. Many people also experience stigma, discrimination and violations of human rights (WHO report).

A phobia is a type of anxiety disorder that causes an individual to experience extreme, irrational fear about a situation, living creature, place, or object. When a person has a phobia, they will often shape their lives to avoid what they consider to be dangerous. The imagined threat is greater than

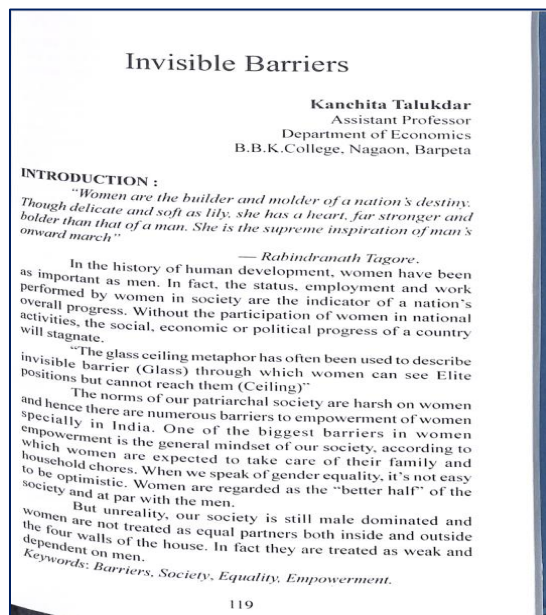
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58) Kanchita Talukdar (2022-23)

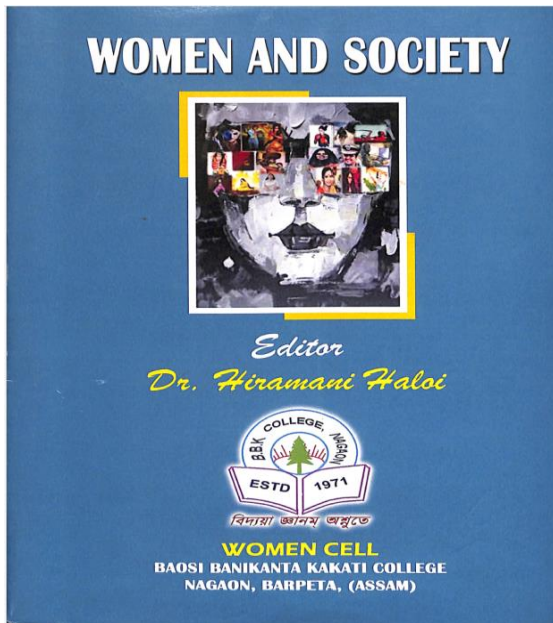


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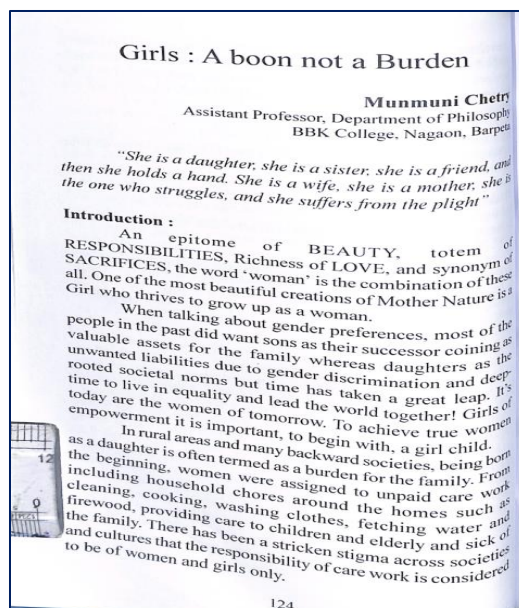


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59) Munmuni Chetry (2022-23)

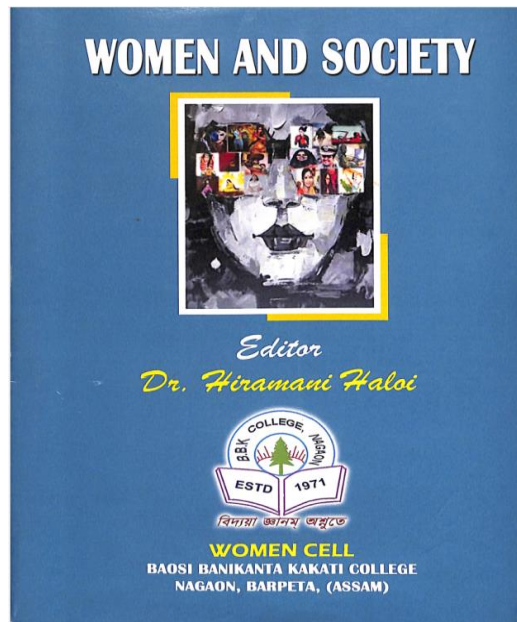


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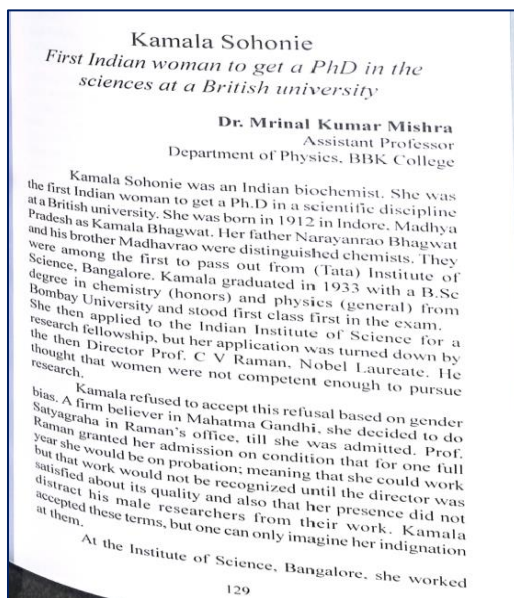


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60) Dr. Mrinal Kumar Misra (2022-23)

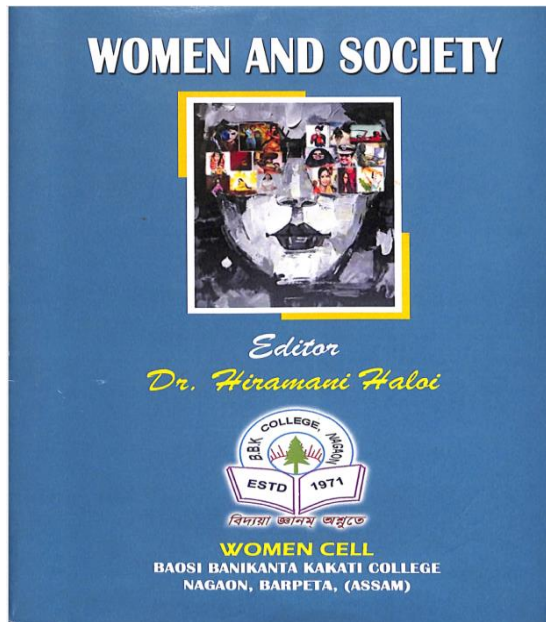


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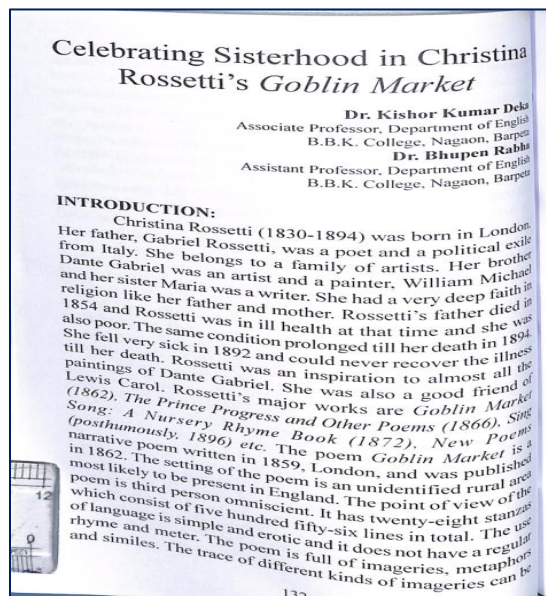


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61) Dr. Kishor Kumar Deka (2022-23)

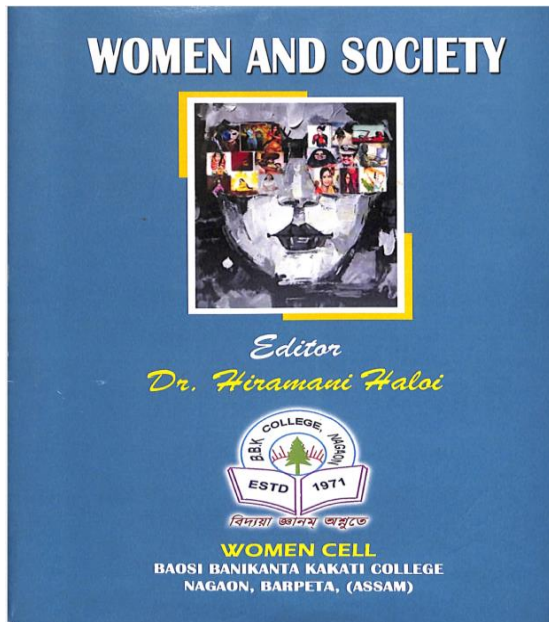


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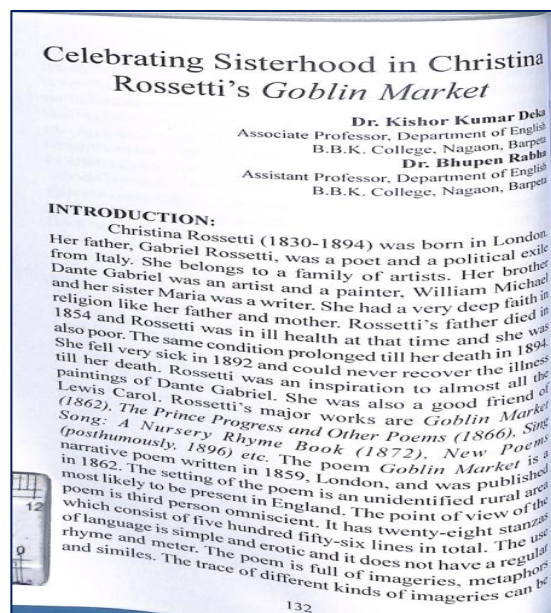


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62) Dr. Bhupen Rabha (2022-23)

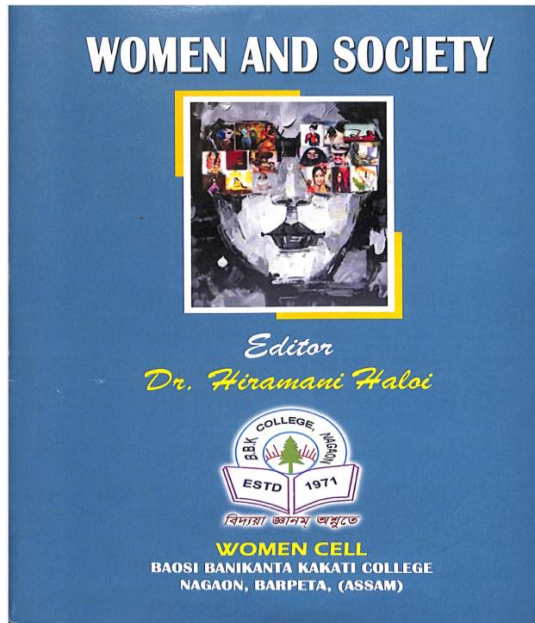


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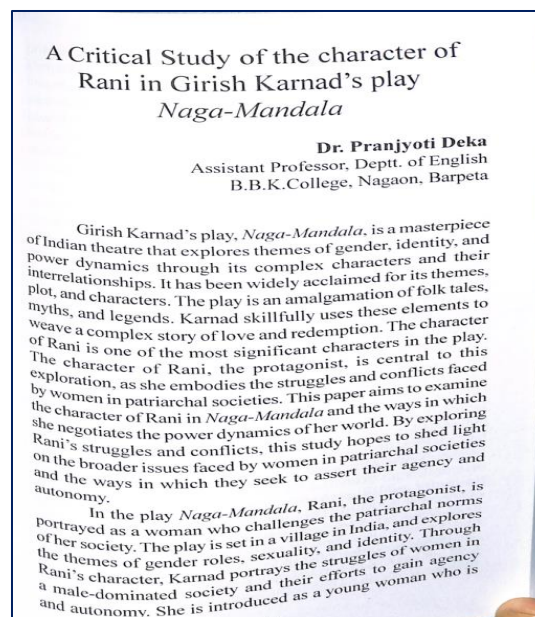


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63) Dr. Pranjyoti Deka (2022-23)

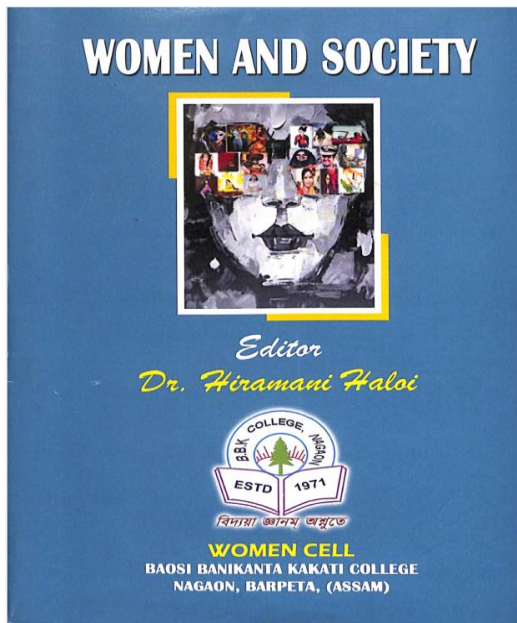


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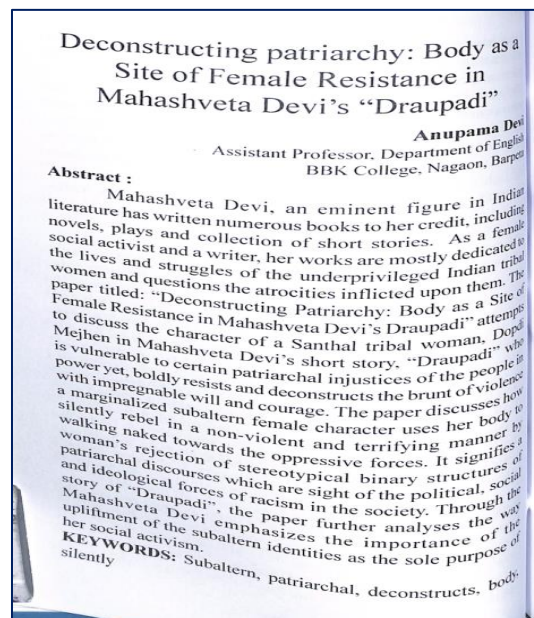


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64) Aupama Devi (2022-23)

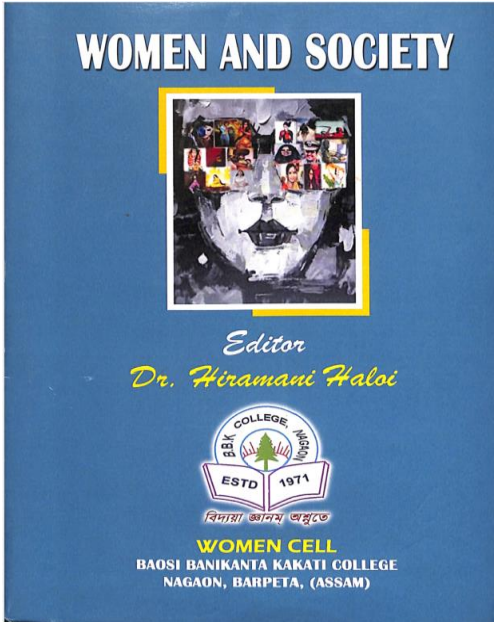


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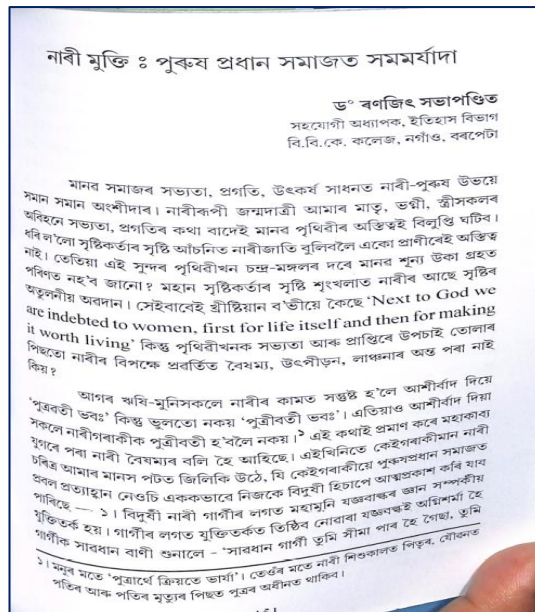


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65) Dr. Ranjit Sabhapandit (2022-23)

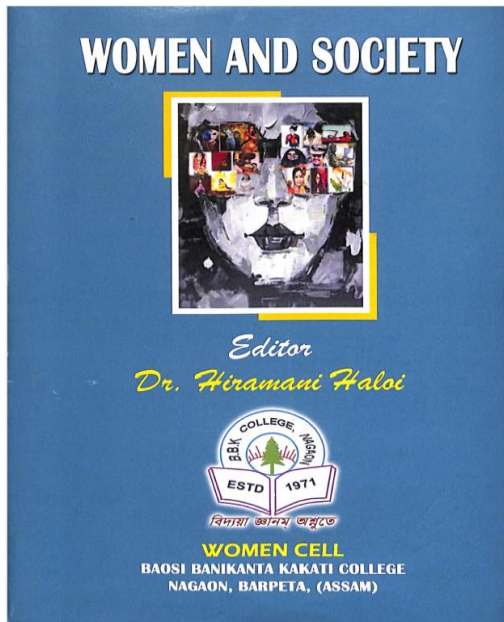


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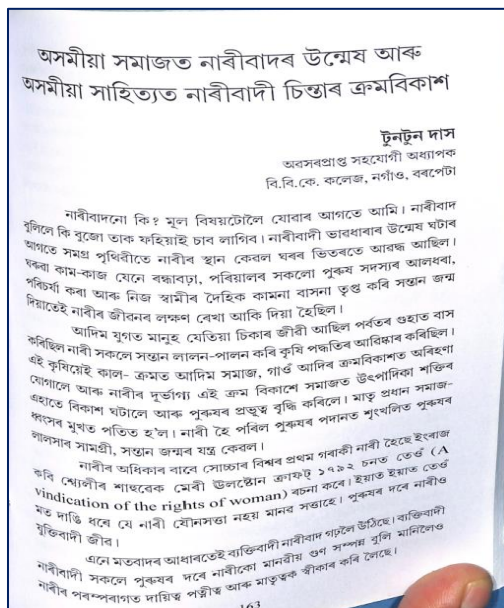


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66) Tuntun Das (2022-23)

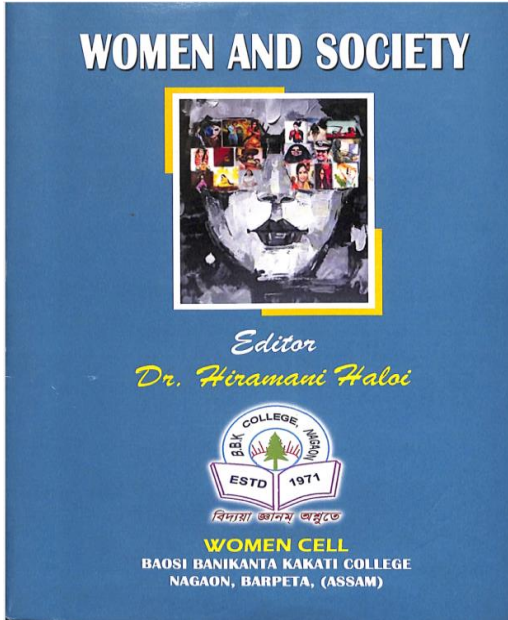


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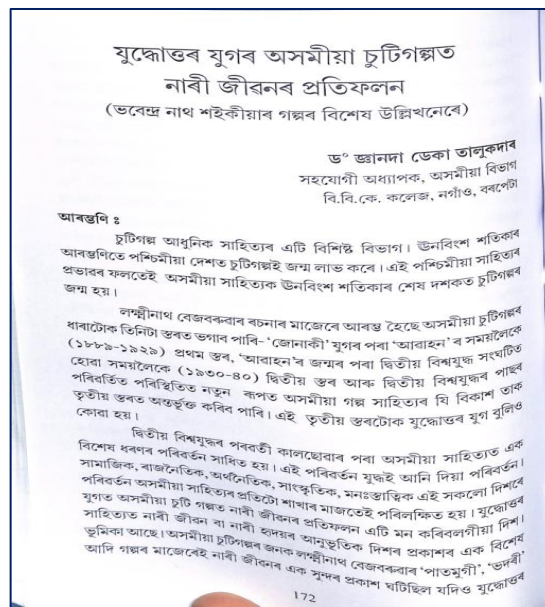


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67) Dr. Gyana Deka Talukdar (2022-23)

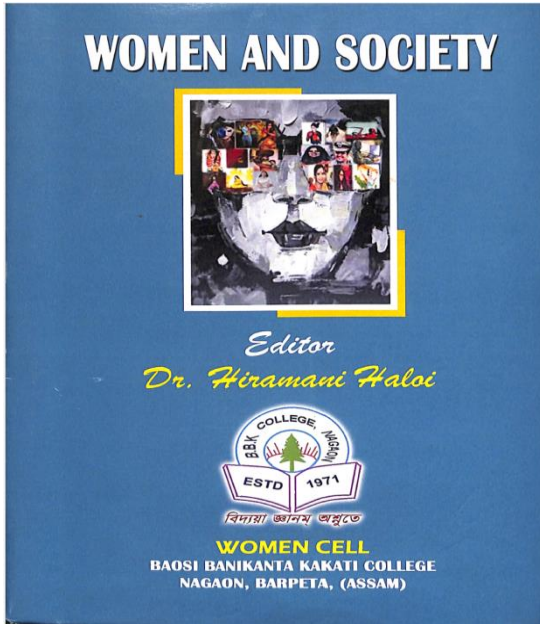


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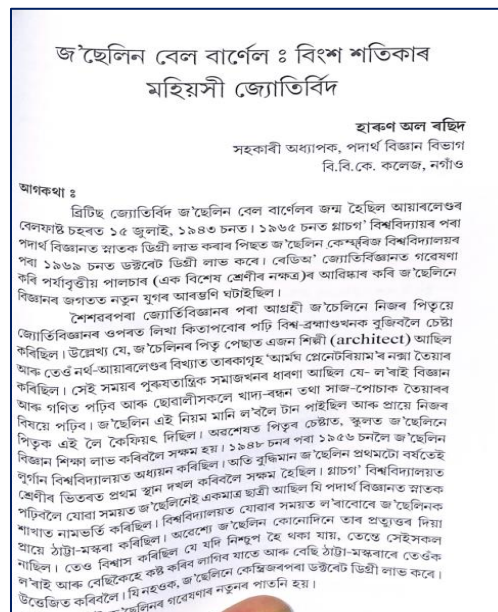


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68) Harun Al Rashid (2022-23)

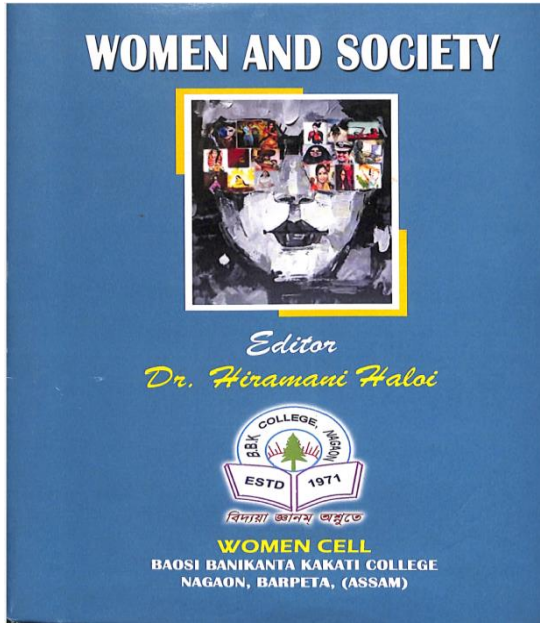


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সুপম পাল

সহকাৰী অধ্যাপক, অসমীয়া বিভাগ
বিবিক কলেজ, নগাঁও, বৰপেটা

সংক্ষিপ্তসাৰ :

সাহিত্যৰ এক উল্লেখযোগ্য ভাগ হৈছে - উপন্যাস। মূলী প্ৰেমচন্দৰ 'নিৰ্মলা' আৰু বিৰিঞ্চি কুমাৰ বৰুৱাৰ 'জীৱনৰ বাট'ত দুয়োখন উপন্যাসতে নাৰী জীৱনৰ কৰুণতম দিশবোৰ স্পষ্ট ৰূপে প্ৰতিফলিত হৈছে। জীৱনৰ বাটত উপন্যাসত যিদৰে নাৰী জীৱনৰ দুখ-দুৰ্দশা, দলিত, লুপ্তিত আদিৰ স্মৰণ দাঙি ধৰিছে তেনেদৰে 'নিৰ্মলা' উপন্যাসত চিত্ৰিত হৈছে সমসাময়িক সমাজ জীৱনত প্ৰচলিত যৌতুক প্ৰথা আৰু অমিল বিবাহৰ দৰে সামাজিক কু-প্ৰবৃত্তিৰ চিত্ৰ। পুৰুষশাসিত সমাজত নাৰীৰ জীৱনৰ পৰাধীনতাৰ প্ৰতিচ্ছবি পৰিদৃষ্ট হোৱা দেখা যায় দুয়োখন উপন্যাসত নাৰীজীৱন বিপন্ন হৈছে ত্যাগ আৰু সহনশীলতাৰ মাজেৰে।

অধ্যয়নৰ প্ৰয়োজনীয়তা আৰু গুৰুত্ব :

মূলী প্ৰেমচন্দৰ 'নিৰ্মলা' আৰু বিৰিঞ্চি কুমাৰ বৰুৱাৰ 'জীৱনৰ বাট'ত উপন্যাসে সাহিত্য জগতত অগ্ৰণী ভূমিকা গ্ৰহণ কৰিছে। নাৰী জীৱনৰ বাটত উপন্যাসে সাহিত্য জগতত উপন্যাসতই সমসাময়িক সমাজ জীৱনৰ সৈতে সৈতে সামঞ্জস্য থকা দুয়োখন উপন্যাসতেই সমসাময়িক সমাজ জীৱনৰ সৈতে সম্পৃক্ত। দুয়োখন উপন্যাসৰ প্ৰকাশ শৈলী সমৃদ্ধিশালী যদিও সাময়িক অধ্যয়নৰ জড়িততে তদানীন্তন সমাজ জীৱনৰ সৈতে পৰিচয় কৰাই দিয়াৰ যথেষ্ট প্ৰয়োজনীয়তা আছে। উপন্যাসৰ গুৰুত্ব অপৰিসীম কাৰণ তাত চিত্ৰিত নাৰী জীৱনৰ অধ্যয়ন। তদুপৰি চি. ব. ছি. এচ পাঠ্যক্ৰমত ছাত্ৰ-ছাত্ৰীৰ উপকৃত হোৱাকৈ

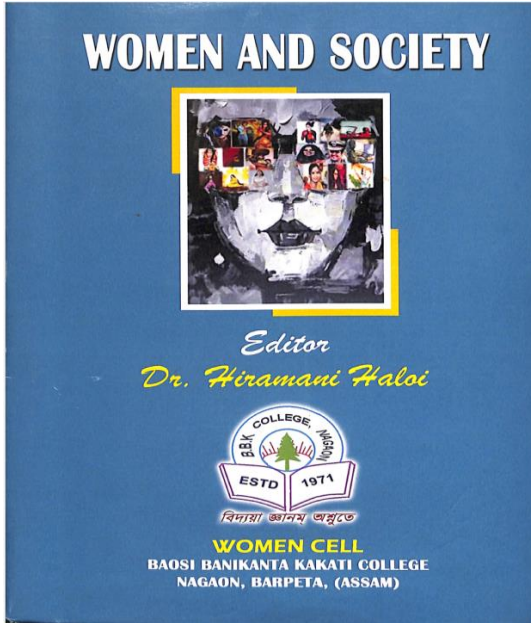
জীৱনৰ অধ্যয়ন। তদুপৰি চি. ব. ছি. এচ পাঠ্যক্ৰমত ছাত্ৰ-ছাত্ৰীৰ উপকৃত হোৱাকৈ দুয়োখন উপন্যাসৰে অধ্যয়নৰ যথেষ্ট প্ৰয়োজন আৰু গুৰুত্ব আছে।

সিদ্ধান্ত :

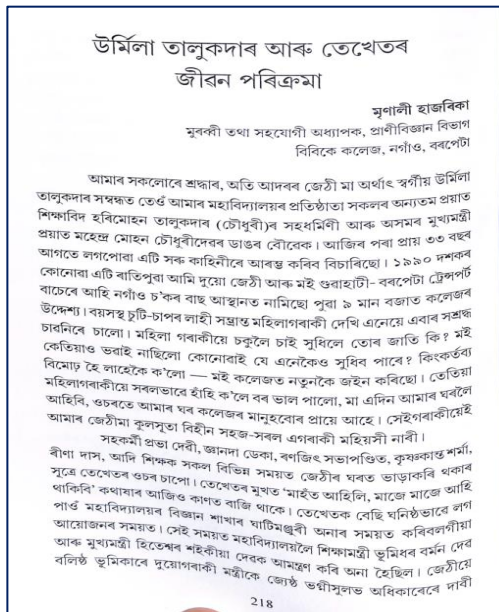
আলোচনাৰ অন্তত এনে এটা সিদ্ধান্তত উপনীত

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71) Mrinali Hazarika (2022-23)

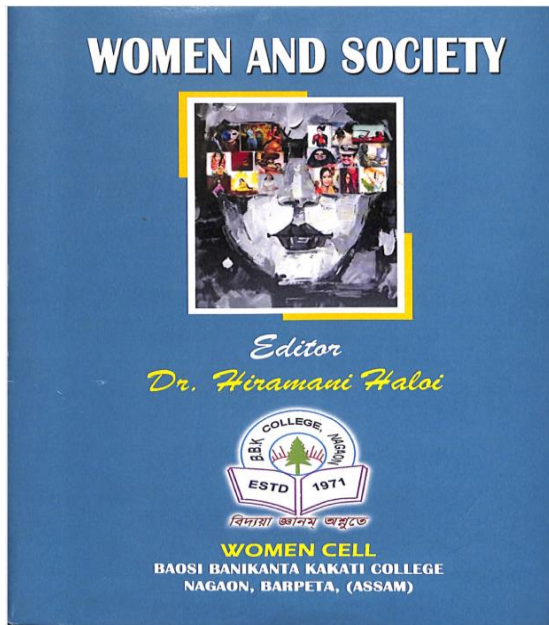


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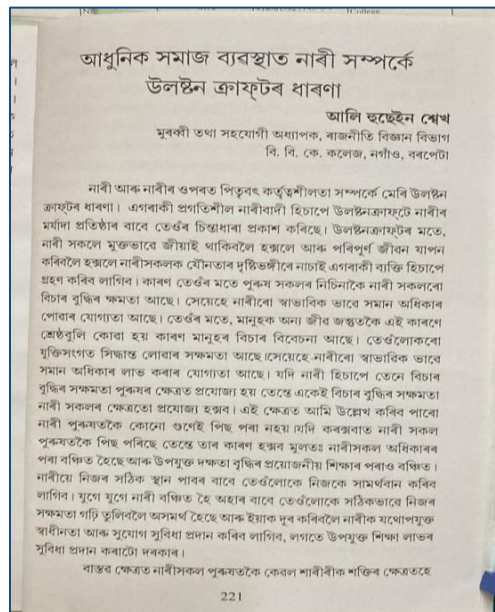


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72) Ali Hussain Sheikh (2022-23)

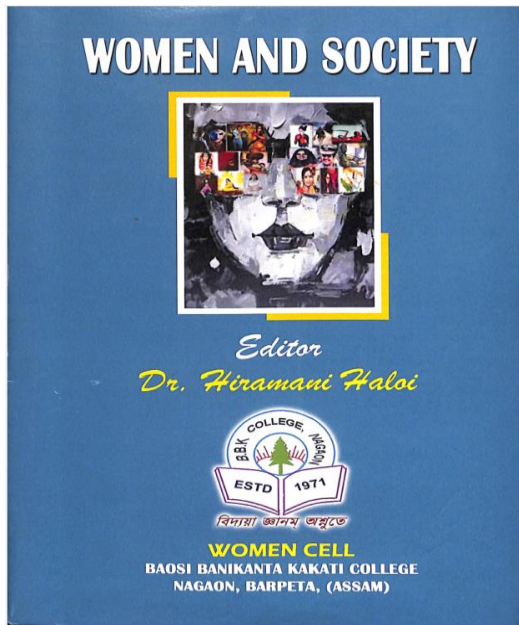


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73) Runumi Hazarika Pathak (2022-23)

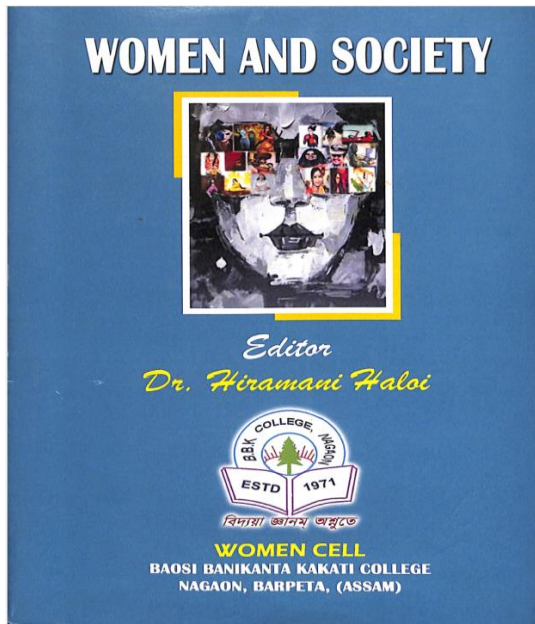


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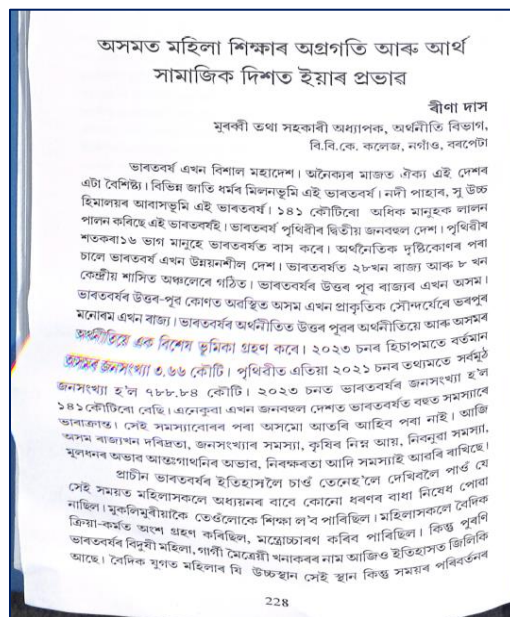
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নারী আৰু পুৰুষ উভয়ে প্ৰকৃতিৰেই সৃষ্টি। উভয়ে নিজৰ নিজৰ কৰ্ম সম্পাদনা কৰি সমাজখন আগবঢ়াই লৈ যায়। কোনোও কাৰো অনিষ্ট নকৰাকৈ চলি যোৱালৈকে কোনো কথা নাই, কথা আছে তেতিয়া যেতিয়া নিজকে সৰল বুলি ভবা শ্ৰেণীটোৱে আপাতত দুৰ্বল জ্ঞান কৰা শ্ৰেণীটোৰ ওপৰত শোষণ, অত্যাচাৰ আৰম্ভ কৰে। ঐতিহাসিক যুগৰপৰাই সমাজৰ সৰু বৰ জাতি, শ্ৰেণীৰ মেক বিভাজন কৰি এটা শ্ৰেণীক সদায় নিৰ্ভৰাৰ্থে প্ৰাপ্য অধিকাৰ কিছুমানৰ পৰা বঞ্চিত কৰি অহা হৈছে। সেই অৰ্থতে 'অবক্ষিত' শব্দেৰে এই শ্ৰেণীটোক বিভূষিত কৰা হৈছে। 'অবক্ষিত' অৰ্থাৎ যাক বক্ষা কৰা হোৱা নাই। ইয়াত মূলতঃ মানুহৰ অধিকাৰ অৰ্থাৎ সৰু সৰু জাতি, জনগোষ্ঠী, কৰ্ম ভিত্তিক হোৱা জাতি-উপজাতি সমূহকেই বুজোৱা হৈছিল। সমাজত বসবাস কৰা সকলো লোকেই সমান অধিকাৰ ভোগ কৰিবলৈ নাপায়। আনবোৰ কাৰক বাদ দিলেও কেবল সমাজত সুখ-শান্তিৰ প্ৰাৰ্থিত অবক্ষিত শ্ৰেণীটোৱে সামাজিক ৰীতি-নীতি, ধৰ্মীয় আচাৰ-নীতিৰ অনুষ্ঠানৰ আওপুৰণি ধাৰণা কিছুমানৰ বশবৰ্তী হৈ মূলসুঁতিৰ পৰা নিৰ্ভৰাত বাস কৰিবলগীয়া হৈছে। সেইসকল পূৰ্ণ পৰ্যায়ৰ তেজ মণ্ডৰ মানুহ আৰু এইসকলে মৌলিক অধিকাৰ আৰু মুক্ত, স্বাধীনতা ভোগ কৰিবলৈ পাব নাপে। ৰাষ্ট্ৰসংঘৰ চনদতো সমাজৰ এই দুৰ্বল শ্ৰেণীসমূহৰ মানৱীয় অধিকাৰৰ কথা কোৱা হৈছে। এই সমূহ অবক্ষিত গোটৰ ভিতৰত মহিলা, শিশু আৰু বিভিন্ন সংখ্যালঘু উদ্যোগত এই সমূহ অবক্ষিত তথা অৱহেলিত গোটৰ অধিকাৰ বক্ষাৰেফলৰ বাবে সময়ে সময়ে বিভিন্ন সিদ্ধান্ত গ্ৰহণ কৰি আহিছে। দ্বিতীয় মহাযুদ্ধৰ পাছৰপৰাই মহিলাৰ অধিকাৰ সম্পৰ্কত অধিক মানোনিবেশ কৰা হৈছে। ৰাষ্ট্ৰসংঘৰ চনদৰ প্ৰস্তাবনাৰ মানব অধিকাৰ সম্পৰ্কীয়	
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74) Rina Das (2022-23)

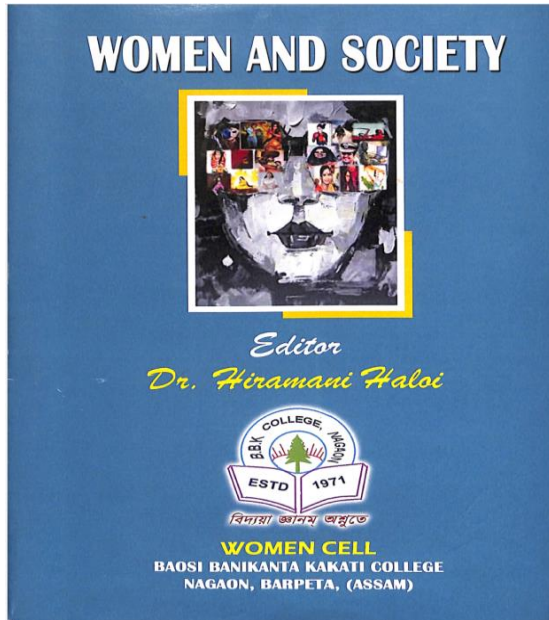


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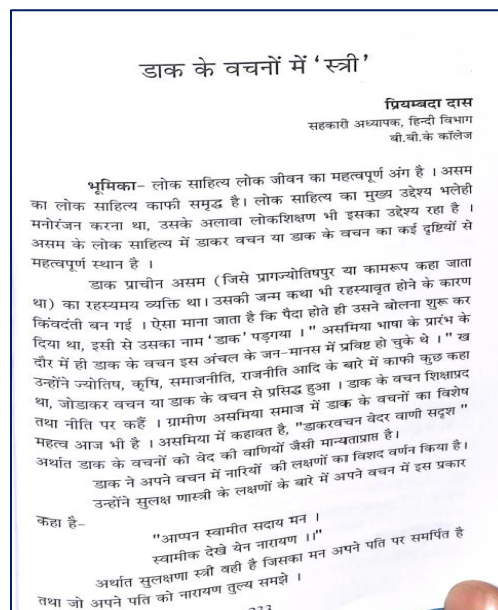


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75) Priyambada Das (2022-23)

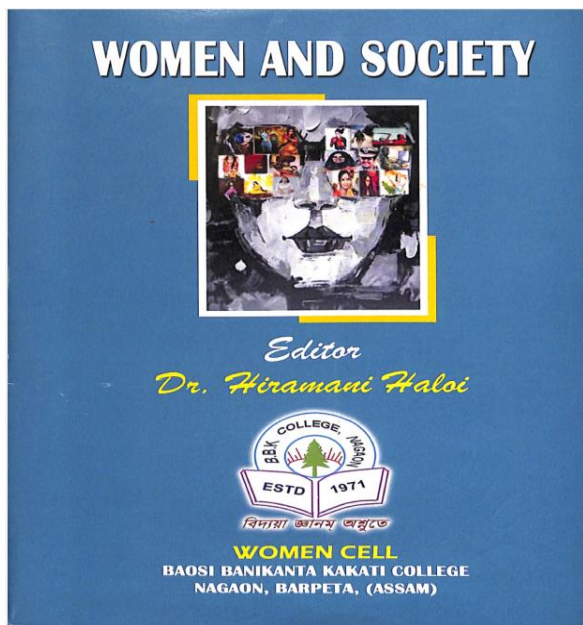


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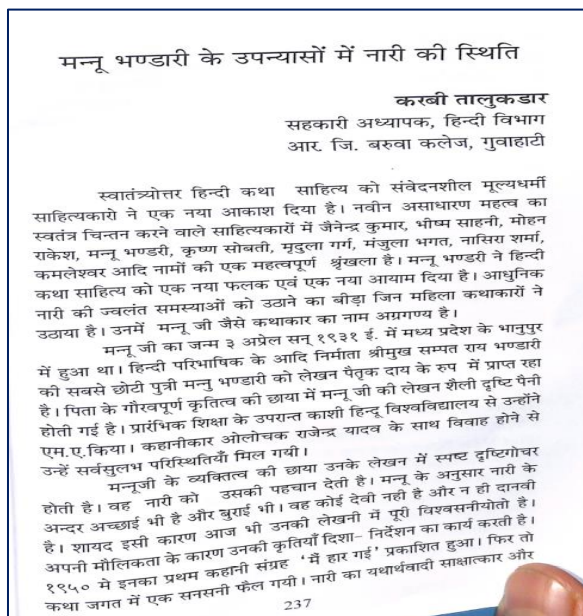


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76) Karabi Talukdar (2022-23)



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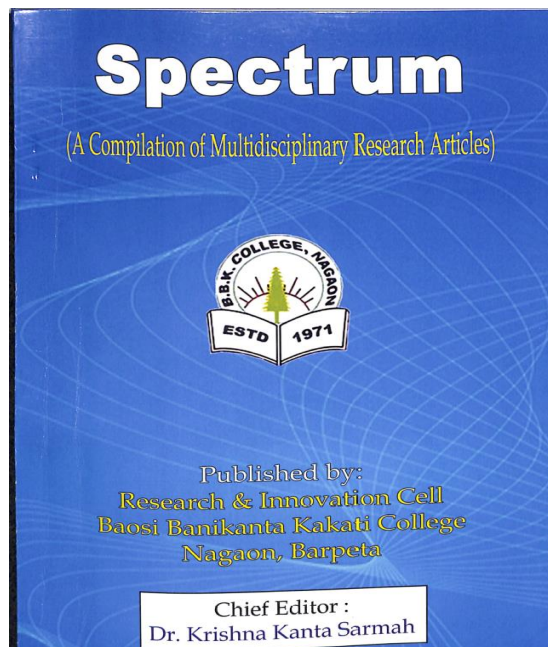


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Dr. Pradip Das
Principal

77) Phulrenu Mishra (2022-23)



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Role of Damodardev in Neo-vaishnavite movement in Assam

Phulrenu Mishra
Department of History B.B.K. College

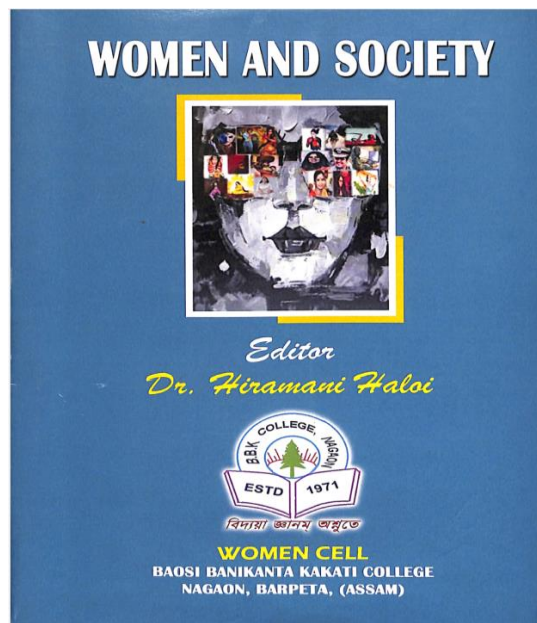
Abstract: The Neo-Vaishnavite Movement spearheaded by saint Sankardeva is a great socio cultural revolution in Assam. It started on the theme of working towards the upliftment of the backward classes and minimization of the rigidity of cast distinctions. Damodardev was one of the chief followers of sankardeva. He was attracted towards the bhakti movement by sankardeva. Damodardev's father Satananda was Sankardeva's friend and sankardeva guided damodardev in his spiritual journey. All biographical works maintain that Madhabdev and Damodardev came into direct clash immediately after the death of sankardev at Koch Behar which led damodardev to declare his independence and create his own circle later called brahma samhati, where he would be working in his own way. Damodardev was a great religious organizer and a social reformer. This paper is an attempt to study about the role of amodardev in Neo-vaishnavite Movement in Assam.

Key words : Neo-vaishnavism, upliftment, Brahma-samhati

Introduction: Damodardev was sixteenth century neo vaishnavite preceptor of Assam. He is considered to be one of the most important figures in the history of the vaishnavite movement in Assam. Damodardev dedicated his life to social reforms and spiritual teachings. His contributions to the society have left a lasting impact on the region's culture and tradition. Damodardev was the architect of full-fledged satra system.

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78) Azizur Rahman (2022-23)

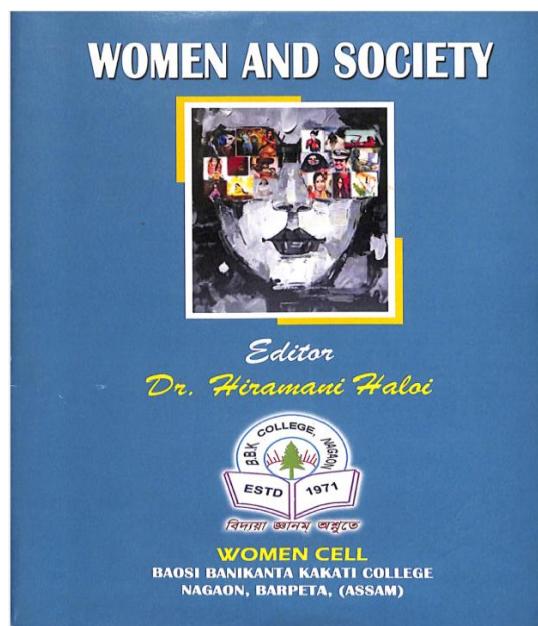


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Barpeta as a Satra Nagari	
Mr. Azizur Rahman Deptt. of History B. B. K. College, Nagaon, Barpeta	
Abstract : Satra is a special indigenous social institutional centre, mainly associated with the Ekaharana tradition of Vaishnavism in the satra of Assam. The Neo Vaishnavite movement brought immense religious to assam which eventually brought changes to the assamese social and cultural life. In Assam movement was initiated by Sankardeva. Sankardeva took various measures for the spread and expansion of this Neo Vaishnavite movement or religion. One of the results of this movement was established of a social organisation known as 'satra'. Satra is a such a platform which is very closely connected to the assamese lifeline. Satra enrich our culture in a unique way. The cultural practise of satra is popularly known as satriya culture. Various cultural programme, drama, music, instruments handicraft, mask making are the main elements of satriya culture. The satra help people to develop their cultural activities as well as financial activities. Satra carries greater educative value in the formation of assamese society. Keyword: Satra, Satriya Culture, Sankardeva, Neo Vaishnavite movement, Barpeta, Assamese, Culture and Society. Introduction: The Vaishnavite movement of Assam initiated by Shri Sankardeva during the last part of fifteenth century of christian era is remarkable for the religious and social life of medieval Assam. Its impact on religion, literature, fine arts and social life of Assam, particularly on the Brahmaputra valley is indeed great. Sankardeva took various measures for the spread and expansion of this Neo Vaishnavite movement or religion.	
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79) Kanchita Talukdar (2022-23)



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IMMIGRATION : Causes and Consequences	
Kanchita Talukdar Department of Economics. BBK College Nagaon, Barpeta	
Abstract : As the world's largest origin for international migration India has a rich history of immigration and emigration. Most recently the Middle East and Western countries have been destinations for Indians abroad. Slightly more than half of India's 17.9 million emigrants in 2020 lived in Persian gulf countries which nearly 3.5 million in the United Arab Emirates alone. Many have moved abroad for employment purposes, better standard of living, family reunification, educational purposes, natural disaster, climate conditions, to find or engage in paid work, etc. The states of Uttar Pradesh, Bihar, Tamil Nadu and Kerala are the major sources of Indian emigration. Work related migration is largely dominated by men. India is also a significant country of immigration with nearly 4.9 million in bond residence 2020, mostly from elsewhere in South Asia. Immigration has been trending downwards in recent years but it continues to play prominent role in National political debates and has stirred tensions with neighboring country Bangladesh. Keywords : Immigration, Emigration, Remittance, Humankind, Culture, Diversity, Infertility, Transformation, Challenges. Objectives : To study the challenges faced by the host country. To analyze the Trend of Immigration in India. To study the impact of migrants on the members of the host country.	
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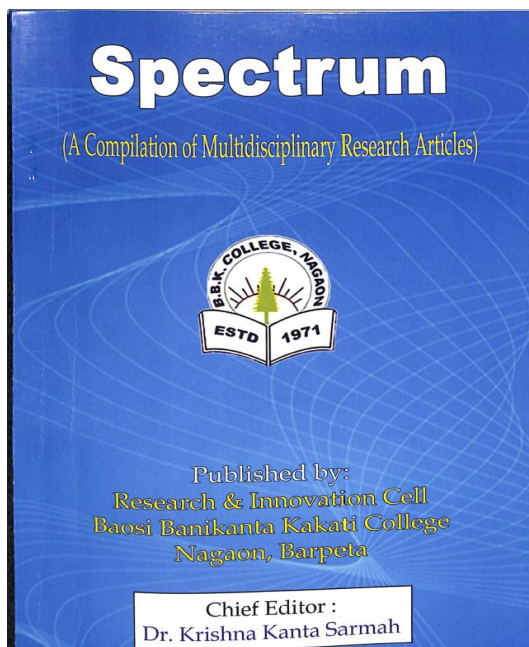


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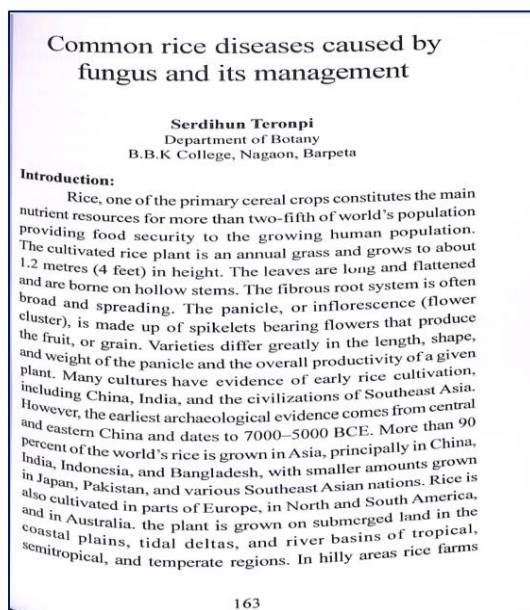
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Assam – 781311 (INDIA)

Dr. Pradip Das
Principal

80) Serdihun Teronpi (2022-23)



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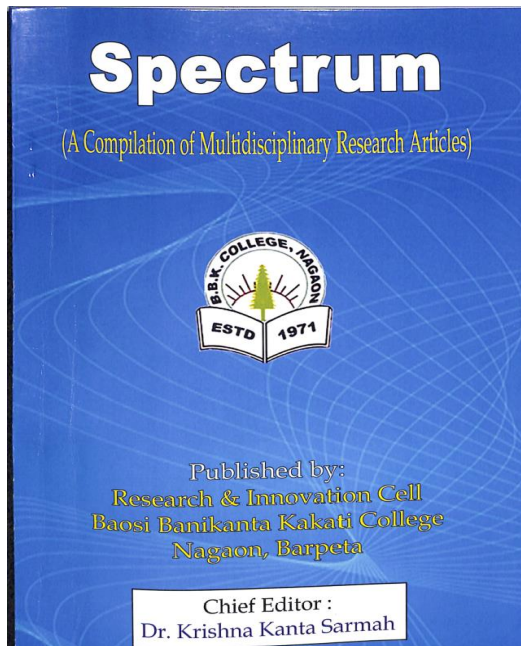


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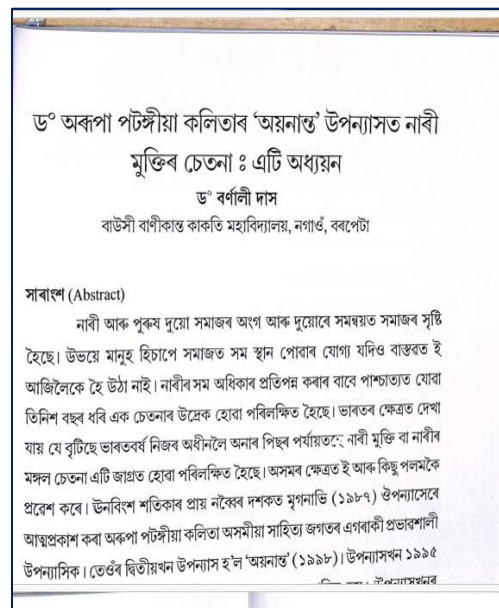
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Dr. Pradip Das
Principal

81) Dr. Barnali Das (2022-23)

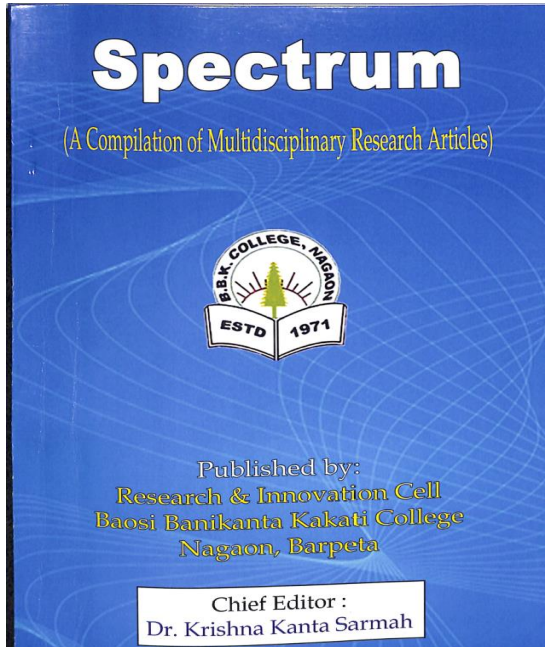


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82) Dr. Hiramani Haloi (2022-23)

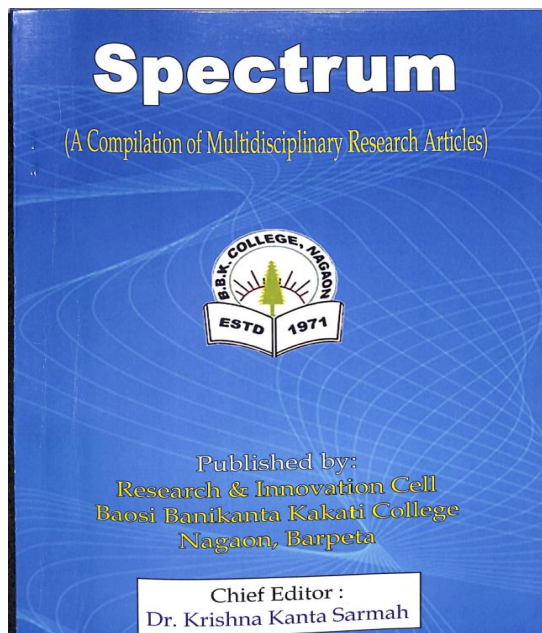


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ড° হীৰামনি হালৈ	
বাউসী বাণীকান্ত কাকতি মহাবিদ্যালয়, নগাঁও	
কৰপেটা (অসম)	
আৰম্ভণি :	
লোকমাধ্যম সাধাৰণতে মানুহৰ পৰিৱেশনক সূচায়। লোকনৃত্য, গ্ৰাম্যগল্প নট আৰু সাংস্কৃতিক বৈচিত্ৰ্য ইয়াৰ উপাদান। এই পদটিয়ে সেই অভিনীত কলাসমূহক নিৰ্দেশ কৰে- যিবোৰ মানুহৰ সাংস্কৃতিক জীৱনৰ প্ৰতীক স্বৰূপ। পৰম্পৰাগত লোকমাধ্যম হ'ল ব্যক্তিগত যোগাযোগ আৰু মনোবল্লমৰ এক প্ৰকাৰ। ভাৰতবৰ্ষৰ বিশেষকৈ গাৰলীয়া অঞ্চলবোৰত যোগাযোগৰ মাধ্যম হিচাপে এতিয়াও পৰম্পৰাগত শৈলীসমূহ যেনে - লোকনট, লোকসঙ্গ, ধৰ্মীয় আলোচনা আদিয়ে বিশেষ ভূমিকা গ্ৰহণ কৰি আছে। বাৰ্তা সঞ্চাৰণ কৰাৰ উপায় হিচাপে ব্যৱহাৰ কৰা পৰম্পৰাগত লোকশৈলীসমূহৰ চৰিত্ৰও বৈচিত্ৰ্যপূৰ্ণ। এই শৈলীসমূহত নাটক, নৃত্য, গীত, মুকাভিনয়, বৰ্ণিত লোককথা, পুতলা নাচ আদিৰ উপকৰণ নিহিত হৈ থাকে। যোগাযোগৰ এই পৰম্পৰাগত শৈলীসমূহতে অৰ্থনৈতিক আৰু সামাজিক বিকাশৰ বাৰ্তা বহনকাৰী সাজ্জাত উৎস নিহিত হৈ থাকে।	
লোকমাধ্যমে বিদ্যালয়ৰ সম্পৰ্কৰ বাহিৰৰ জনতাৰ বাবেও গুৰুত্বপূৰ্ণ ভাৱে বহন কৰে। কৰণ ই আমাৰ সামাজিক আৰু সাংস্কৃতিক গাঁথনিৰ সৈতে নিবিড় ভাবে সংযুক্ত। গ্ৰাম্যগল্প অশিক্ষিত বহিষ্কৃত সচেতন আৰু শিক্ষিত কৰি তোলোৱা ক্ষেত্ৰত লোকমাধ্যমৰ বিশেষ অৱদান আছে। লোকমাধ্যম সমূহ কেৱল বৈচিত্ৰ্যতেই নহয়, এইবোৰ অৰ্থনৈতিকভাৱেও সুবিধাজনক আৰু হাতৰে চুকি পোৱা বিধৰ। উল্লেখযোগ্য যে, এই অনুষ্ঠানবোৰ চলন্ত কাৰ্যসূচী হিচাপে প্ৰদৰ্শন কৰা হয় আৰু সেয়ে সাধাৰণ মানুহৰ ভৰসা দাবী কৰিব পাৰে। পৰম্পৰাগত লোক মাধ্যমসমূহত পৰিৱেশনকাৰী আৰু দৰ্শক সোতাৰ মাজত প্ৰত্যক্ষ যোগাযোগ সম্ভৱ হয়।	
পদ্ধতি:	
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83) Supam Paul (2022-23)

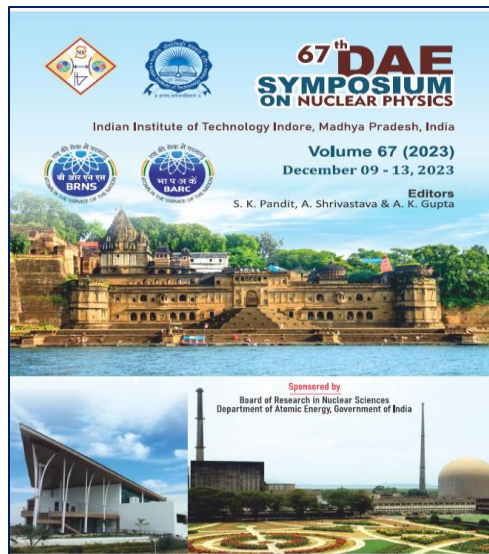


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সুপম পাল অসমীয়া বিভাগ বাউসী বাণীকান্ত কাকতি মহাবিদ্যালয়, নগাঁও, বৰপেটা	
সংক্ষিপ্তসংহ	
অসমৰ গোৱালপাৰা জিলাৰ অন্তৰ্গত বামপুৰ, বৰদামালত প্ৰতিষ্ঠিত বাদুংদুপ্লা কলাকেন্দ্ৰই নাট মঞ্চস্থ কৰাত সুকীয়া স্থান লাভ কৰিছে। সাধাৰণ নাটতকৈ এই নাট অনন্য। ইয়াত নাই কোনো হাই-উকমি, আধুনিক মঞ্চসজ্জাৰ পৰা বহু আঁতৰত, প্ৰদূষণমুক্ত, মেকাপৰ প্ৰাধান্য নাই, শাল গছৰ মাজে মাজে প্ৰাকৃতিক পৰিবেশৰ মাজত এই নাট পৰিবেশন কৰা হয়। সাধুকথা, কিতবপুৰী আদিৰ কাহিনীভাগ সুন্দৰকৈ নাট্যৰূপ দিয়াত তেওঁলোক সিদ্ধহস্ত।	
সূচক শব্দ : বাদুংদুপ্লা, প্ৰকৃতি, শাল গছ, সুকীয়া	
বিষয়বস্তু: অধ্যয়নৰ প্ৰয়োজনীয়তা আৰু গুৰুত্ব	
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অধ্যয়নৰ পদ্ধতি :	
কেৱল অধ্যয়নৰ পৰা পোৱা এই গৱেষণামূলক প্ৰকল্প পত্ৰখন মূলতঃ বিশ্লেষণাত্মক পদ্ধতি ব্যৱহাৰ কৰা হৈছে আৰু প্ৰয়োজন সাপেক্ষে বৰ্ণনাত্মক পদ্ধতি অৱলম্বন কৰা হৈছে।	
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নাটকৰ পৰিসৰ বিশাল আৰু ব্যাপক। নাটক হ'ল এটি শক্তিশালী কলা সুলভ অভিজ্ঞতা। নাটক চোৱাৰ সময়ত এজন দৰ্শক হিচাপে আমি মঞ্চত উন্মোচিত ঘটনাবলীৰ অশ্বীৰ্বাস হওঁ যিটো সঁচাকৈয়ে এটি বহুসময় পৰিঘটনা। নাটকে সমাজ-সংস্কৃতিৰ বিকাশ আৰু ইয়াৰ পৰিৱৰ্তনৰ ক্ষেত্ৰতো মহত্বপূৰ্ণ ভূমিকা লব পাৰে। নাটকত দৰ্শকে প্ৰেক্ষাপূৰ্ণ	
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84) Harun Al Rashid (2022-23)



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Multi-Nucleon Transfer Reaction Studies on $^{10,11}\text{B}+^{40}\text{Ca}$ at 50 MeV

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Introduction

Processes in which few nucleons are transferred between projectile and target are one of the dominant reaction channels in heavy ion collisions at energies around Coulomb barrier. Such reactions take place when the surfaces of the colliding nuclei come to distances where the tail of the nuclear wave function starts overlapping thereby, determining the frictional force between the surfaces [1-3]. Single nucleon transfer reaction probes to single particle character of states whereas pairing (p-p, n-n) or cluster effect can be observed from even number of nucleon transfer reactions [4,5]. Entrance channel properties such as deformation and mass asymmetry affect the formation of compound nucleus (CN) system or a multinuclear system [6,7]. Roy *et al.* has studied transfer reaction for the systems $^{16}\text{O}+^{27}\text{Al}$, $^{16}\text{O}+^{58}\text{Fe}$ (^{16}O , ^{58}Fe), $^{16}\text{O}+^{100}\text{Sn}$, $^{16}\text{O}+^{100}\text{Sn}$, $^{16}\text{O}+^{100}\text{Sn}$ and $^{16}\text{O}+^{100}\text{Sn}$ which shows significant properties of Q-value dependence on transfer processes [8].

In this paper, we have reported experimental details of the $^{10,11}\text{B}+^{40}\text{Ca}$ system at energy of 50 MeV in order to study effect of pair transfer on nuclear transfer cross section.

Experimental Details

Experiment was carried out with $^{10,11}\text{B}$ beam of 4⁺ charge state at incident energy, $E_{\text{lab}}=50$ MeV

obtained from Pelletron accelerator facility at Inter University Accelerator Centre (IUAC), New Delhi, India. Carbon backed (thickness 21.5 $\mu\text{g}/\text{cm}^2$) CaF_2 target of thickness 271.5 $\mu\text{g}/\text{cm}^2$ was used for this experiment which was fabricated at target laboratory of IUAC. Beam current was maintained at around 3.0 pA. Four Silicon Surface Barrier (SSB) detector telescopes of $\Delta E-E$ (40 μm -300 μm , 15 μm -300 μm , 50 μm -1.5mm, 40 μm -2mm) configuration were mounted on two movable arms of the General Purpose Scattering Chamber (GPSC) of 1.5 m diameter to detect the transfer products.

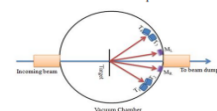


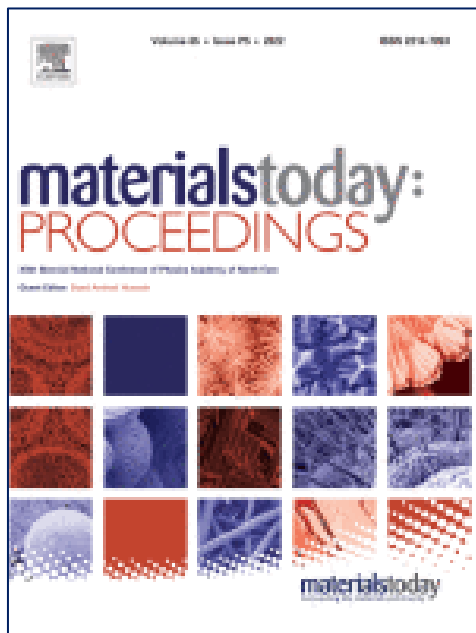
Fig. 1 A schematic diagram of the experimental setup at GPSC.

The angular range covered by detectors was from 18° to 62°. Two monitor detectors (M_1 and M_2) were placed at 10° on the either side of the beam direction for normalization purpose. A schematic diagram of the experimental arrangement is shown in Fig. 1.

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85) Harun Al Rashid (2021-22)



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The effect of neon ion irradiation on tungsten for next generation fusion reactor

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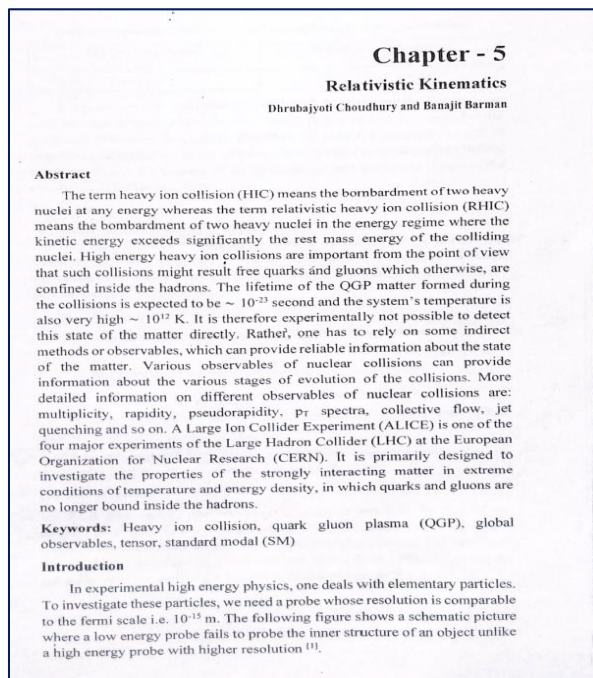
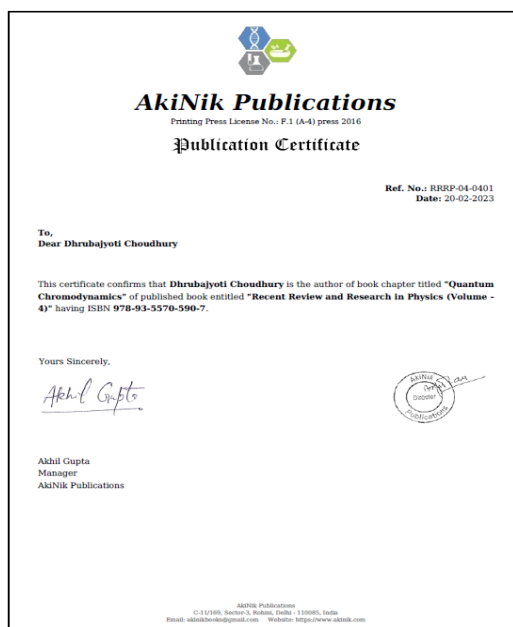
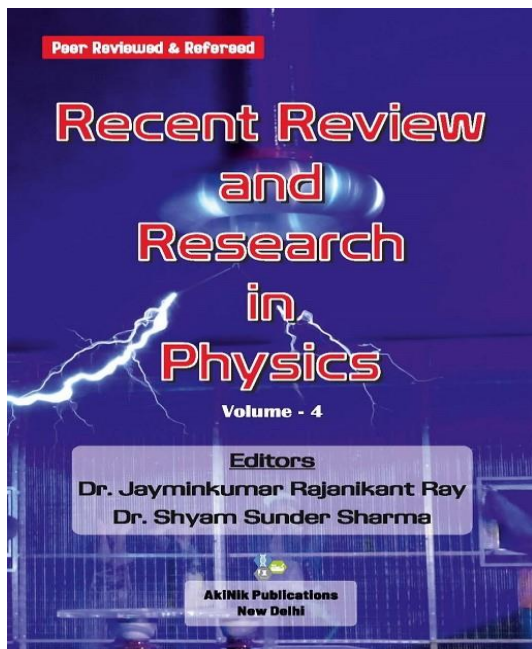


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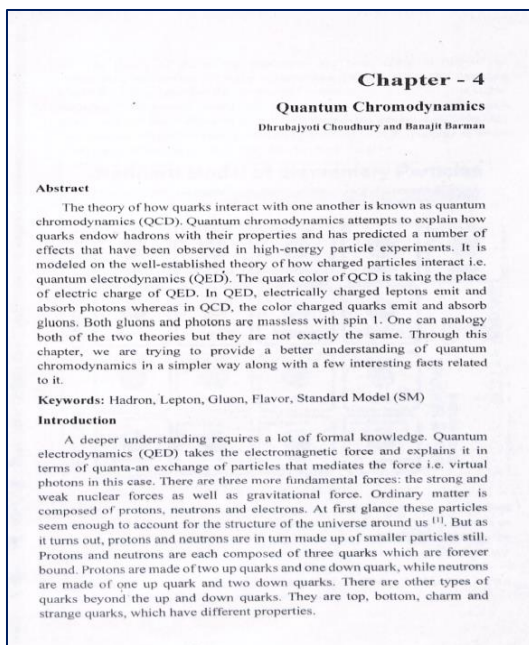
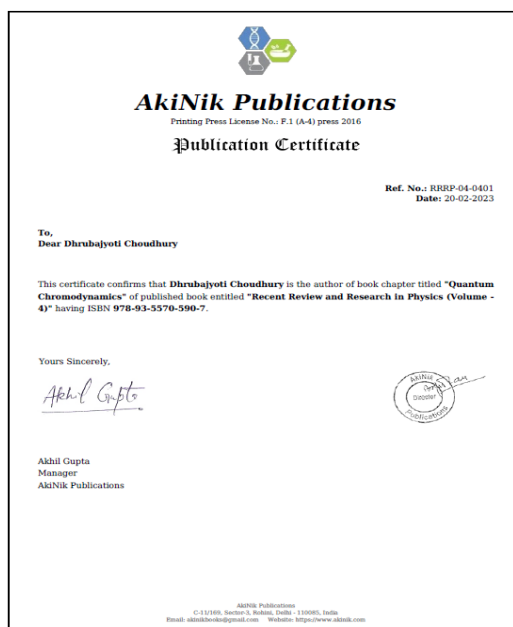
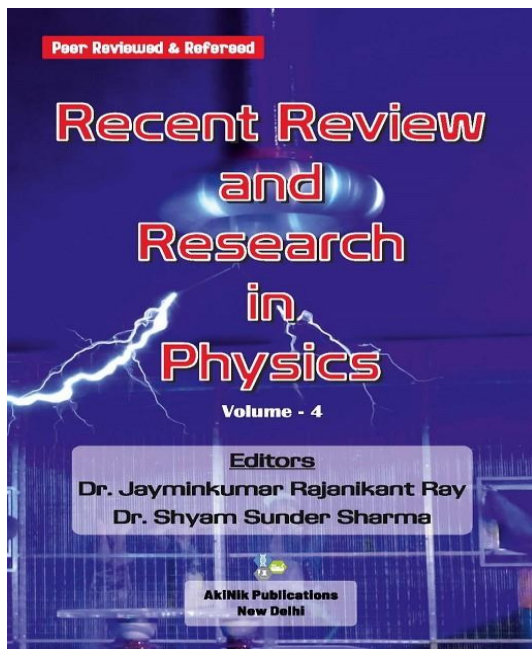
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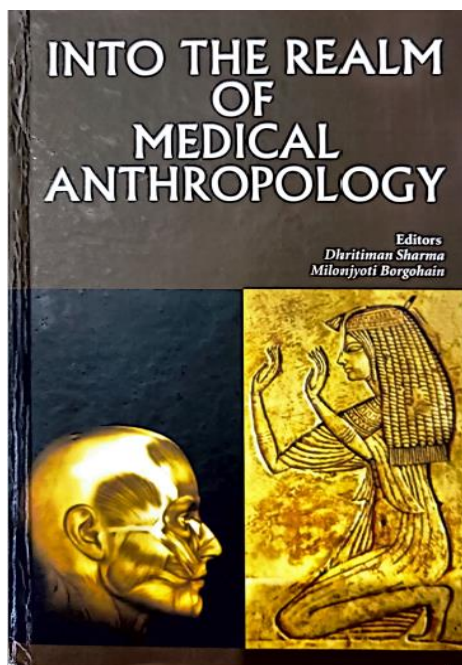
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88) Haripriya Das (2020-21)



**REPRODUCTIVE HEALTH AND DISEASE
OF THE KARBI WOMEN OF ASSAM**

HARIPRIYA DAS

INTRODUCTION

The WHO International conference on population and development, held in Cairo in 1994, arrived at a consensus view of health that was endorsed by 165 countries,

Reproductive health is ... "a state of complete, mental and social well being and not merely the absence of disease or infirmity, in all matters relating to the reproductive system and its function and process".

Reproductive health extends into the years before and beyond the years of reproduction, not just the time of reproduction. Reproductive health plays important role in morbidity, mortality and life expectancy. Reproductive health problems are the leading cause of women's health and mortality worldwide.

Plants have long been recognised for their therapeutical properties. For centuries, indigenous culture around the world has used traditional medicines. The number of patients seeking alternate and therapy is growing exponentially. Herbal medicines are the synthesis of therapeutical experiences of generations of practicing physicians of indigenous system of medicine for over hundreds of years. Herbal medicines are now in great demand in the developing

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Fabrication of CaF_2 target for nuclear reaction studies

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Introduction

The production of targets with the requisite uniform thickness and isotopic purity is a enormous problem for researchers while conducting nuclear reaction experiments [1,2]. A suitable target should also have strong tensile strength and seamless adhesion between the film and the substrate in addition to purity [3]. In the target laboratory of the Tata University Accelerator Centre (TUAC), New Delhi, we prepared CaF_2 targets using the vacuum evaporation method, one of many target production procedures.

Preparing a target for calcium (Ca), which is easily oxidized, is particularly challenging. For our nuclear reaction experiment, we employed a thin CaF_2 film that was $180 \mu\text{g}/\text{cm}^2$ thick and was supported by a $20 \mu\text{g}/\text{cm}^2$ layer of carbon. Because Ca-F bond dissociation energy (527 kJ/mol) is higher than that of Ca-O bond (462 kJ/mol), the likelihood that the CaF_2 thin target will oxidize is lower.

Experimental Details

Fabrication was carried out in diffusion pump based coating unit (DPU) and turbo pump based coating unit (TPU) in the target development laboratory of TUAC. During evaporation, the vacuum was achieved and maintained in the range of 10^{-6} mbar. DPU is connected with a diffusion pump. It is also equipped with 2KW electron gun and resistive heating arrangement. Liquid nitrogen (LN_2) trap is also fitted between chamber gate valve and diffusion pump. LN_2 condenses oil molecules of diffusion pump from moving towards the chamber. The evaporator is also equipped with a quartz crystal thickness monitor which provides

thickness of deposition along with the rate of evaporation.

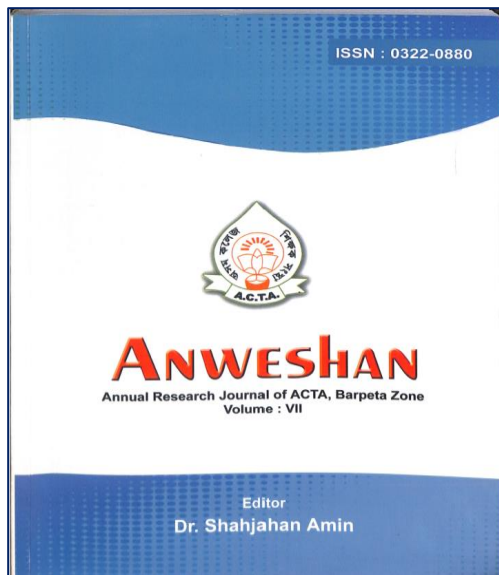
The carbon foil was first prepared as part of the target preparation process. A pasting agent (in our case, boron chloride (B_2Cl_4)) was first coated on the glass plate using a resistive heating process before carbon was applied to the glass slides. The quartz crystal monitor was placed 21 cm from the copper crucible, while the glass slides were kept 27 cm from the resistive heating setup. After the B_2Cl_4 was successfully deposited, carbon was deposited on the glass slides using the electron gun bombardment method without affecting the chamber's vacuum. The internal stress that might have developed in the carbon slides as a result of the lattice orientation during evaporation or as a result of the adhesive force between evaporated material and substrate material was then removed by annealing the carbon slides in a tubular furnace at 325°C in an Argon gas environment. Finally, the carbon slides were cooled to room temperature to remove the internal stress that had developed in the carbon foil. The next phase involved gently floating carbon slides on warm water to prevent them from breaking. Slides were found to successfully remove the carbon foils from the glass substrate when submerged at 45°C . After separation, the foils were placed in target holders. Finally, the target holders were installed within the DPU for the CaF_2 final deposition.

For CaF_2 deposition, pallet of CaF_2 was made using hydraulic press from its powder form and then placed at the tantalum boat mounted inside the DPU. Both the target frame holders and crystal monitor were placed above the resistive heating arrangement approximately at distance of 14 cm. After the arrangement, the

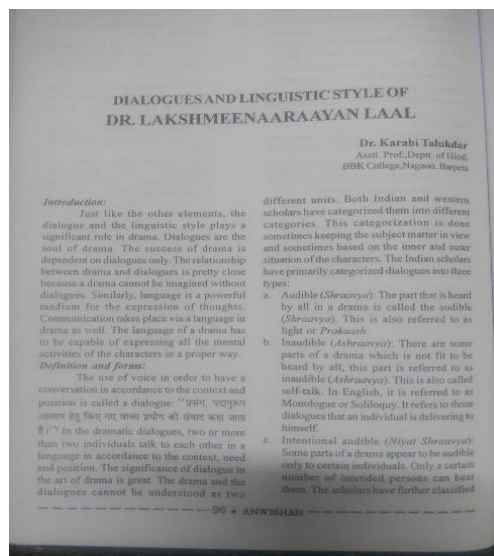
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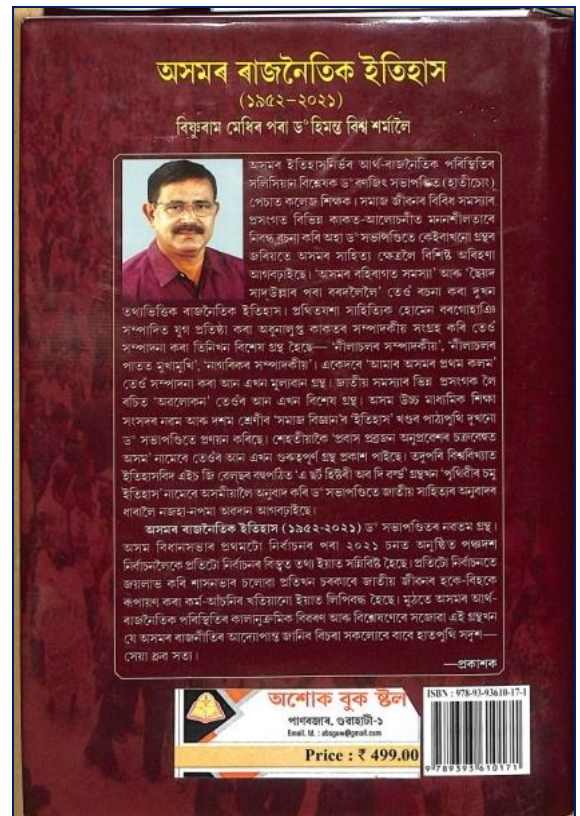
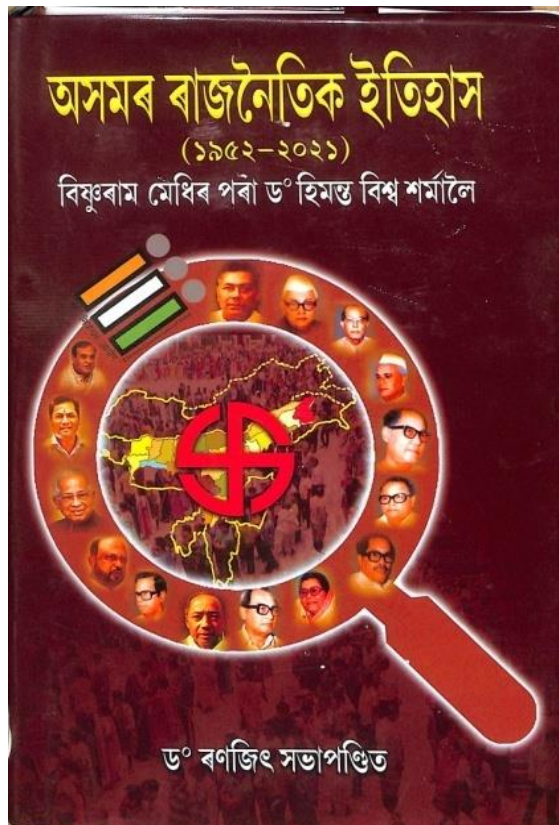


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