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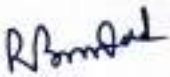
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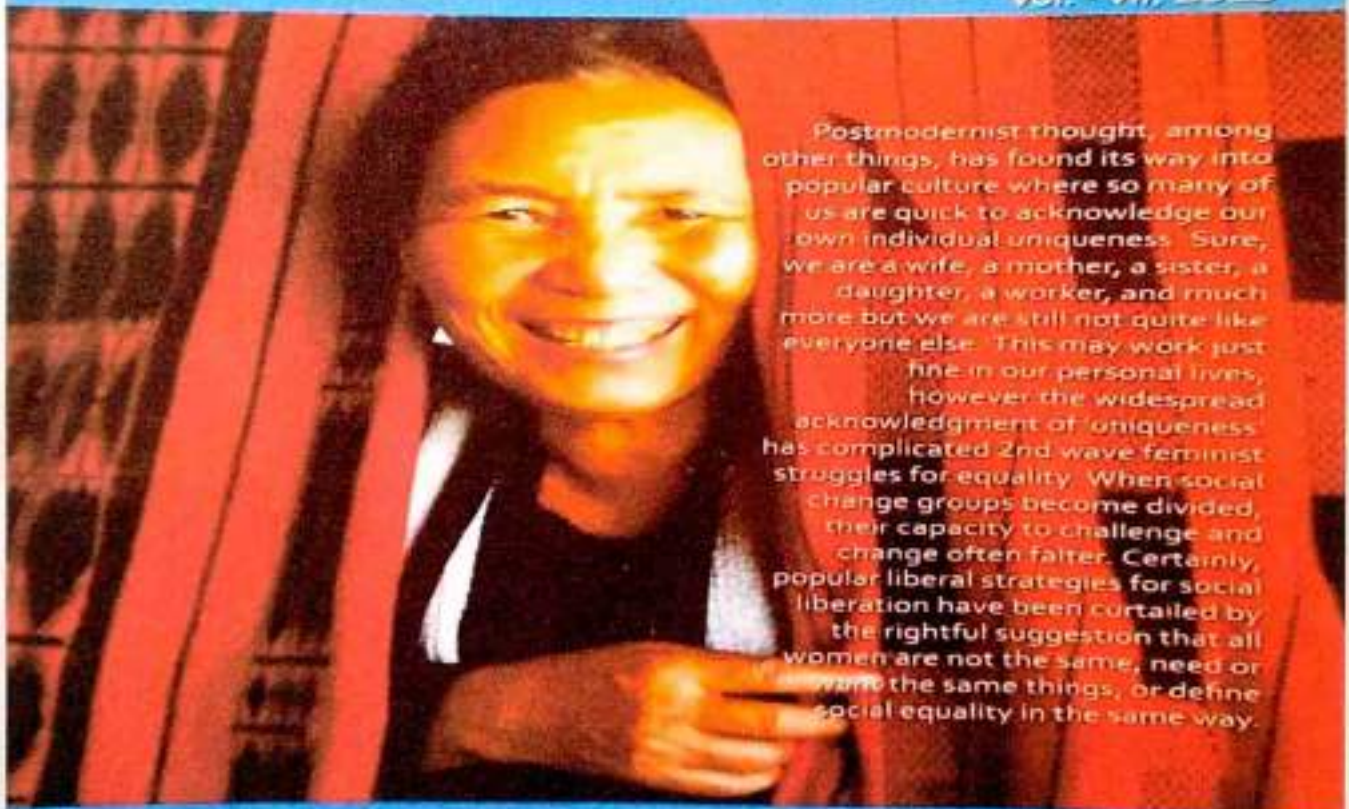
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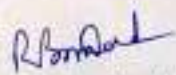
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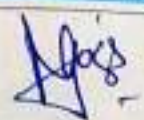
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Begum Rokeya Sakhawat Hossain: Forerunner of Muslim Women in India

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ABSTRACT

Woman is recognised as half part of the world. From time immemorial women of the world has been playing a significant role in the society. Without women a family can never be created in the society. Woman plays the role of daughter, sister, wife and mother in the society. Women also play a vital role in the social transformation. In ancient India, the position and status of women was very high. Each and every person in the society respected womenfolk. But during the Muslim rule in India, the position of Indian women, especially Muslim women, became deplorable. The Muslim women had no right to raise a voice against the decision of a man; women were not able to travel according to their own will. Muslim women always kept them under their traditional garment i.e. *Burkha* during Medieval period. In 18th – 19th century, though the British government tried to develop the condition of the Muslim women, but all the efforts were in vain. Yet, some Muslim women of 18th – 19th century were able to establish their voice in the society. Among them Begum Rokeya Sakhawat Hossain, who was the forerunner for the Muslim women of India was prominent. She adopted some strong steps for the development of the condition of the women. In this paper an attempt has been made to reveal how Begum Rokeya Sakhawat Hossain fought against the male dominated society. Was she successful in her mission?

Key words: Muslim Women, Emancipation, Begum Rokeya Sakhawat Hossain

Introduction:

*"A Woman caring for her children;
a woman striving to excel in ii.; private
sector; a women partnering with her
neighbours to make their street safes; a
woman running for office to improve her*

*country – they all have something to offer,
and the more our societies empower
women, the more we receive in returns" –
Queen Rania of Jordan.*

Growth of civilization, social changes
and the division of labour in society have

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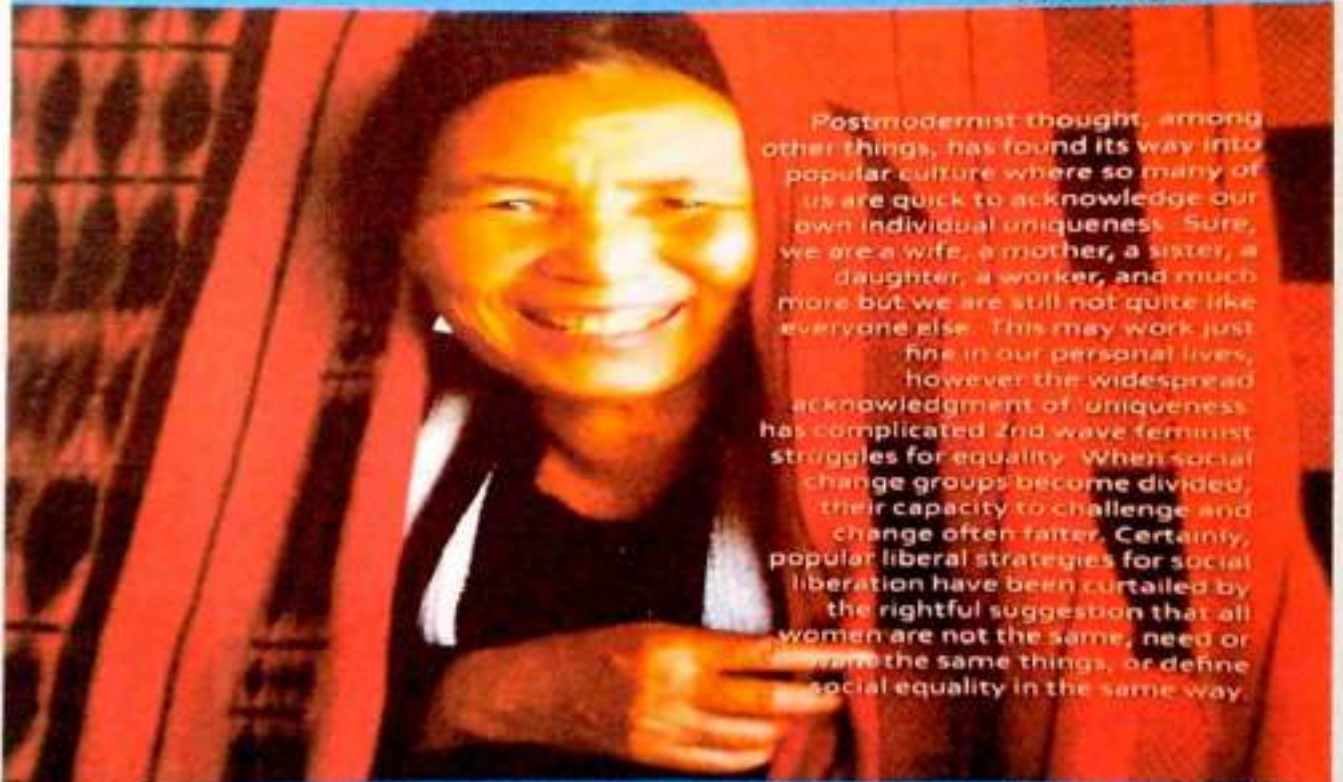
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Study of Health and Hygienic condition among female Tea Garden Workers of Meleng Tea Estate

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ABSTRACT

Assam is the highest tea producer state in the country. Tea garden community plays an important role in tea industry. There is scarcity of reliable information on health and hygienic condition among female tea garden workers of Assam. The present paper tries to find out the hygienic practices and their health-related impacts on the female tea garden workers of Meleng Tea Estate in Jorhat District. Due to ignorance or unavailability of resources they are unaware about the health and hygienic condition which not only affect the health but also affect the states' economy.

Key words: Health, Hygiene, Meleng, Tea garden.

Introduction :

Tea is consumed in about 100 countries and India is the largest producer and consumer of tea in the world (Baroowah, 2006). Assam is the largest tea producing state in India and contributes about 60 per cent of the total production of India (Sen, 2008). Tea is an important agro-industry of Assam, which contributes immensely to the state's economy (Griffiths, 1967). Tea garden community play an important role in States' tea economy. The tea community people came to Assam during British rule from various parts of country including Jharkhand, Odisha, Andhra Pradesh, Tamil Nadu etc. Now they are a part of our society as well as culture.

Health is wealth, but due to some ignorance or unavailability of resources people suffer from various diseases, especially tea community people. Their health and hygiene plays a major role in states' economy. The importance of hygiene practices cannot be denied for a healthy life. Using hygienic toilets, sanitary pads, washing hands after defecation or before meal, safe drinking water, household waste disposal, regular bathing are some of the most important hygiene practices that are needed for a sound life. In many countries around the world, especially undeveloped and developing countries, hygiene practices are not satisfactory. Ignorance as well as lack of proper

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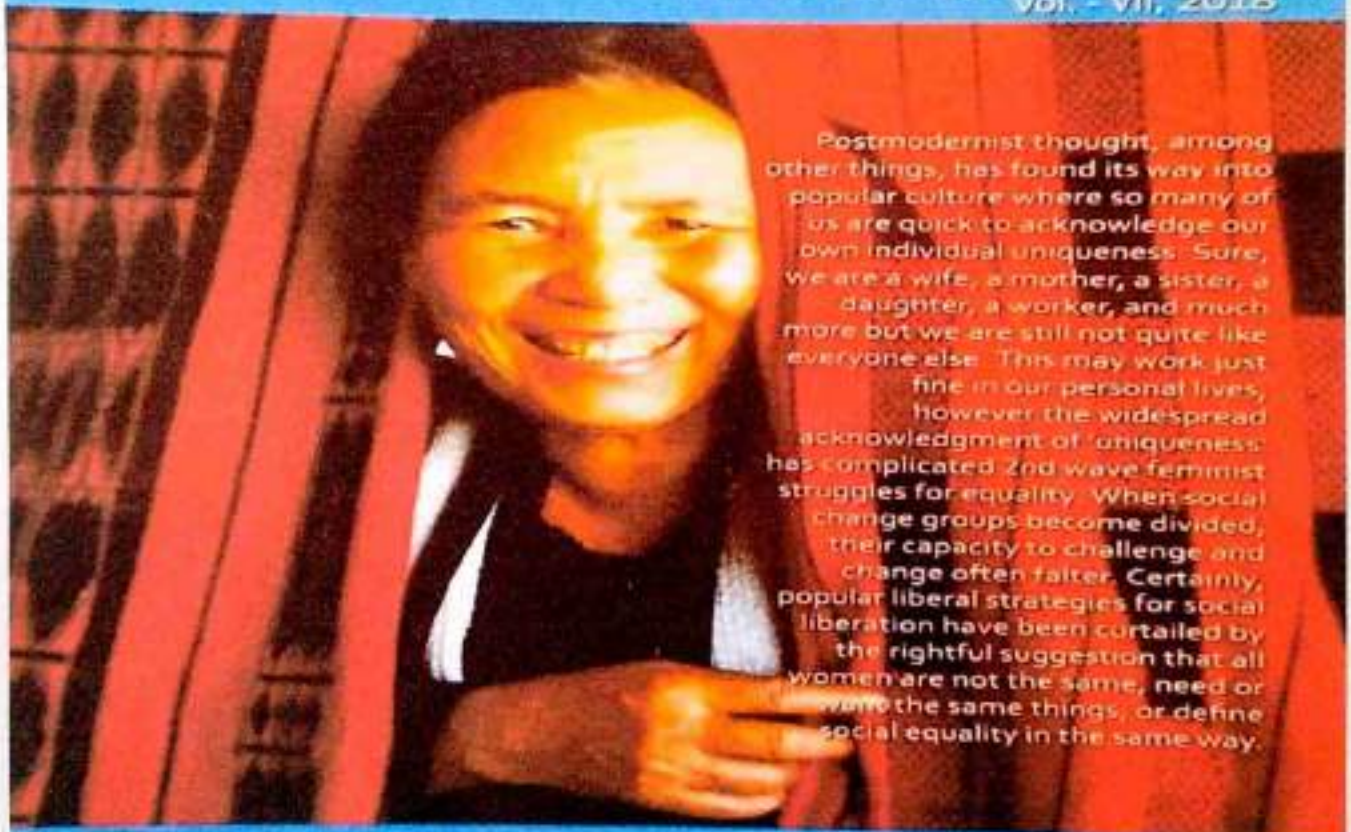
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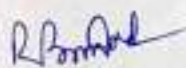
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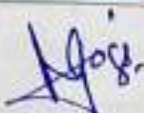


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Witch-hunting: A Major Social Evil of Assam

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ABSTRACT

Witch hunting is one of the most dangerous social evil which is prevailing all over India. In India it dates back hundreds of years and it is one of the most dangerous superstitions in our country. It is one of the burning problems in the society of Assam. Assam is a state where the problem of witch hunting is very sensitive. It can be considered as a social evil for Assam. Witch doctors (Oja, deodhai, bej) are people who are indicted as witch. It is a matter of serious concern that witch hunting is still practiced in post modern times throughout the world. In the entire North Eastern states, Assam is the worst hit by this superstitious evil in the present decade. There are a number of factors as well as causes that led to witch hunting in our state. It is opined that the perpetrators of this crime are motivated and propelled by greed for land, property and also revenge. In this paper, an attempt has been made to witch-hunting in proper perspective and provides some remedial measures at this juncture.

Introduction:

Witch-Hunting is a superstitious evil and a social menace. It is a horrendous superstitious practice prevalent in rural India. It is a matter of serious concern that Witch-Hunting is still practiced in postmodern time throughout the world. In India, it dates back hundreds of years and it is one of the dangerous superstition in our country. A 'Witch' or its assamese vocabulary 'daini' in Assam is used to identify a male or female is alleged to have magical powers that is used to bring evil to the community. In most cases those women are singled out as 'witches' who

are alleged to use their evil to harm others. In the entire Northeastern states Assam is the worst hit by this superstitions evil in the present decade. Meanwhile, Assam has witnessed hundreds of cases of witch-hunting. A 'witch' or 'daini' in local dialect is believed to cause ailment to people, destroy crops and other livestock etc. She is generally identified by an 'ojha' or 'bez' and then is banished from the community or killed. This ugliest form of superstition has been continuing for thousands of years. It is a shame on our civilization. Enacting law at this juncture is a real welcome step, but we can not eliminate witch-hunting

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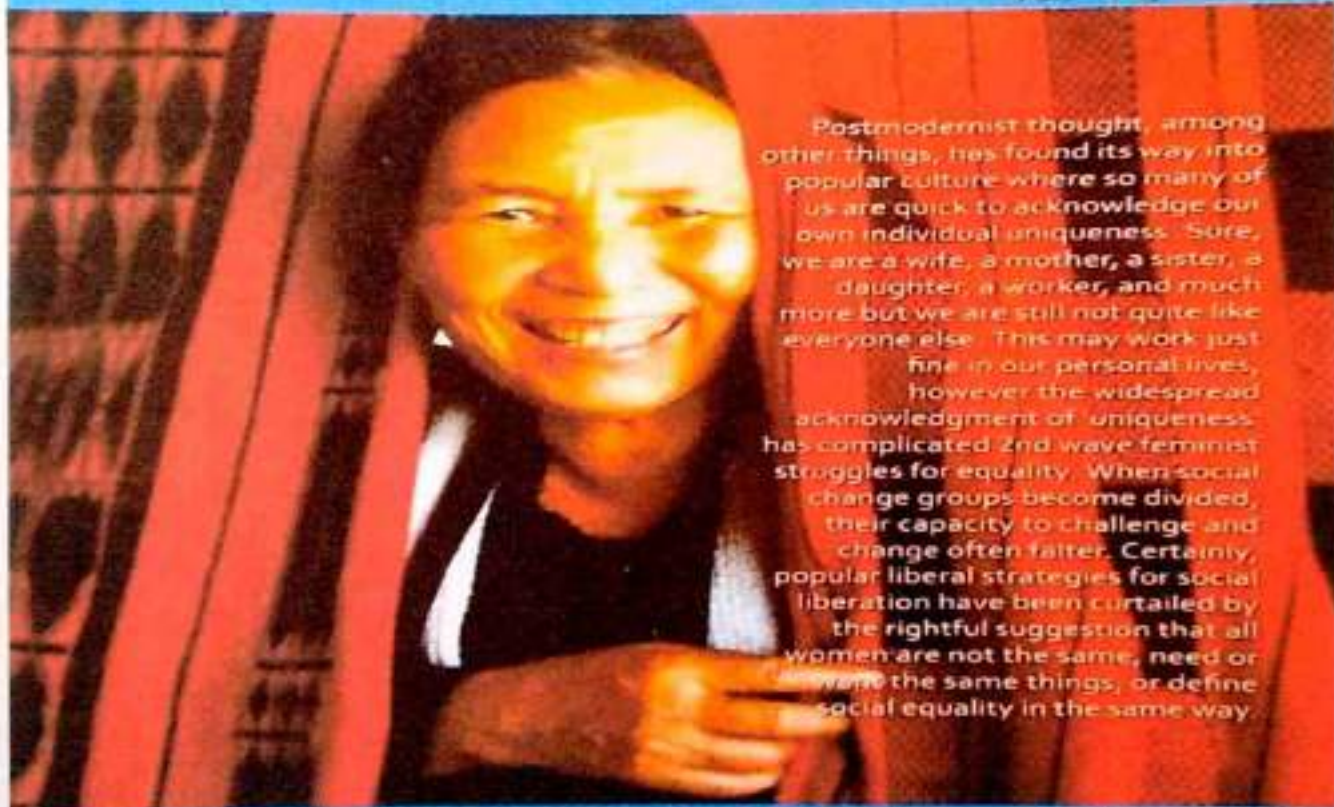
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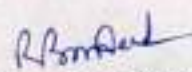
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A Study on Medicinal Plants for the Treatment of Women Diseases in Dihingia Kalita Gaon of Teok Circle of Jorhat District, Assam

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ABSTRACT

Medicinal plants, also called medicinal herbs, have been discovered and used in traditional medicine practices since prehistoric times. Plant kingdom is a blessing as well as a boon from God to living being on this planet. Primitive men had great love towards green plants and started to examine the properties of useful plants. Later he became enriched with the knowledge of many useful and harmful plants. Many medicinal plants have been used in different diseases of women. The aim of the study is to identify medicinal plants used by the local people of the study area for the treatment of different diseases related to women. During this study a sample of 20 different medicinal plants was taken, out of which 14 plants are used by the local people in different diseases of women such as menstruation problem, abortion, uterus diseases etc. The remaining 6 plants are used in the treatment of various diseases of men and women.

Key words : Medicinal plants, Menstruation

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Introduction:

Plants have been used for medicinal purposes long before recorded history. Primitive man observed and appreciated the great diversity of plants available to them. Plants provide food, clothing, shelter and medicine. Much of the medicinal use of plants seems to have developed through observations of wild animals and by trial and error. As time went on, each tribe added to medicinal power of herbs in their area to its knowledge base.

A medicinal plant is a plant that has similar properties as conventional pharmaceutical drugs. Humans have used them throughout history to either cure or lessen symptoms from an illness. Herbalism (also herbal medicine) is the study of botany and use of plants intended for medicinal purposes. Plants have been the basis for medicinal treatment through much of human history and such traditional medicine is still widely practiced today. Medicinal plants play

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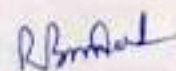
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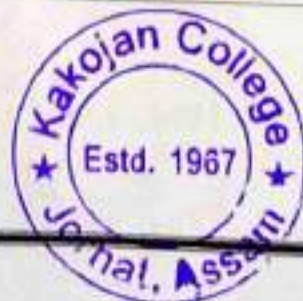
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ROLE CONFLICT AND MARRIED FEMALE COLLEGE TEACHERS: A SOCIOLOGICAL STUDY

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Abstract :

Woman is an integral part of our society. Because of industrialization, urbanization, education women started to work in various sector. Among the different professions teaching has been perceived as prestigious and attractive profession for women who aspire to join in economic gainful activity. But at the same time women are to give time and energy to their family roles. Teaching is regarded as good profession because they can optimally allocate time and energy to play their role in the family. In a society, an individual have to play so many roles. Role conflict arises among the married female teachers. The purpose of the study is to find out the findings of earlier studies related to married female college teachers carried out by different scholars. The data for the study are collected from the secondary source i.e. books and journals. Findings revealed that female married college teachers experienced significantly more role overload and stress as compared to their male counterpart. Therefore, a sociological study on married female college teachers is most significant for the society to overcome the problems they faced during working hour or at home.

Key Words: Role, Role Conflict, Teaching, Women etc.

Introduction:

Woman is an integral part of our society. The status of our women has been considerably enhanced in the country during the post independence era. They are coming out of womb of traditional and custom-ridden society. Traditionally, women were expected to perform household duties and men took care of other outside work. It was just as undesirable for women to work outside home in order to earn money and man also didn't do domestic activities. Women should work if father/ husband was unable to earn due to illness, unemployment, old age and the income and the father/ husband was so meagre that it was difficult to make two ends meet.

In recent times due to growing interaction between industrialization, urbanization and want of material prosperity, women forces take active part in many occupation and profession. It leads to social progress and economic growth and national development besides supplementing the individual progress of women. The contribution of women to the country's


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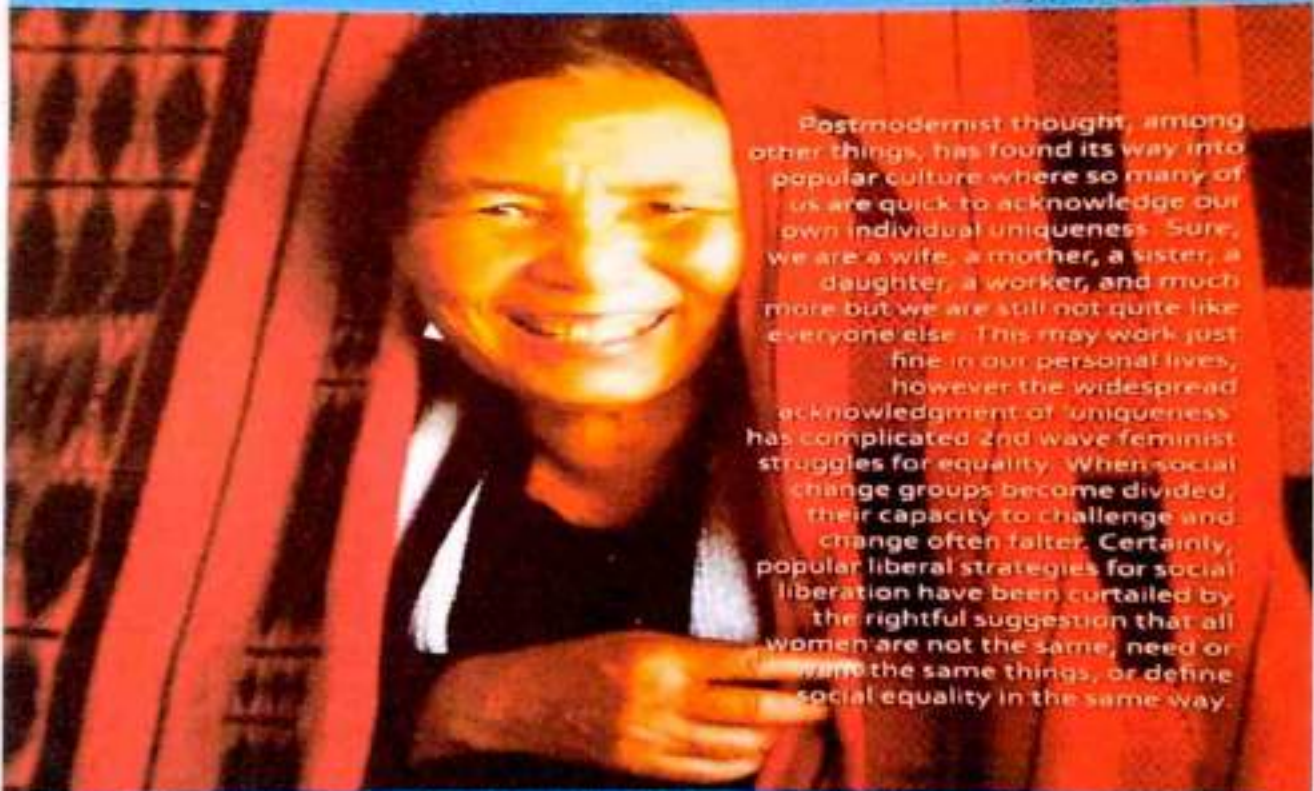
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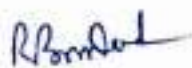
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Role of Woman in Eri-culture as an Agro Based Activities: A Study in Titabor Sub-division of Assam

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ABSTRACT

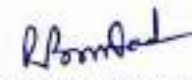
Eri-culture is the cultivation of eri-silk worms. It is an agro-based activity that has been playing an important role in the rural economy of Assam. In Assam three major varieties of silk namely eri, muga and mulberry are grown. But among this, eri-culture occupy a major position of the state. Eri-culture involves cultivation of food plant for eri-worms, rearing of worms for production of cocoons, reeling and spinning of cocoons for production of yarn etc. for value added benefit such as processing and weaving. It also includes many other practical aspects such as increasing productivity of cultivation as well as labour, improvement of cocoon production, generating profitable income, especially of rural people. In all these activities women have shown their mettle and performed their tasks most skillfully. In the village under study women are playing an important role in eri-culture activities. This paper seeks to show involvement of woman in 'eri-culture' an agro-based activity, which has brought about development of rural economy. This survey was carried out during 2016 in Titabor Sub-Division.

Key words : eri-culture, women, eri-workers, rural economy, Assam.

Introduction:

Various studies have brought out the vital role that women have been playing in all form of activities related to various agro based industry like Sericulture, Apiculture and Pisciculture etc. Women contributes a higher portion of the labor force in the above mentioned industry than men. However, they

are generally not active in decision making in the community (Barman, 2001; Bose, Ahmed and Hussain, 2009; Rushi, 2000;). However in the present study, it has been found that women are involved in decision making in the households as well as in the village. The study by Regmi and Weber (1997) has critically assessed the existing gender relations in


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Role of Women in Family Health Through Traditional Practices

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ABSTRACT

Women are an integral part in every society. They are the nucleus of our families. Their contribution to the family and society is uncountable. Women's traditional roles within families have positioned them to directly impact the overall health and well being of their families. Women are central to the health of their families by contributing directly to the nutrition of their families through the production, processing and selection of foods for family consumption. Women generally prepare some traditional medicine for first time when their families members are suffering different kinds of disease. They have the knowledge about the plants which are available in the surrounding. The women thus have been innovative users of plants and plant products in the traditional medicine for several generations in close contact with nature.

Key words : *Traditional, Medicine, nutrition, health etc.*

Introduction :

Women responsible for most health decisions in the home. Women's traditional roles within families have positioned them to directly impact the overall health and well being of their families. As food procurers and preparers, primary caretaker of family numbers and socializing agents, women ensure that their family members are healthy by providing appropriate diagnosing and treating illness and teaching and monitoring hygienic practices thus the roles that mothers play within the family are directly related to the health of the family, particularly that of

young children. When mothers are absent children's health and overall family health negatively affected. So, women are central to the health of their families through the production, processing and selection of food for family consumption.

India is gifted with enormous wealth of biodiversity. The local people who depend on plants for their day to day life. Medicinal plants played an important role in the history of human nutrition and medicine. Medicinal plants provide raw materials for use in all the indigenous system of medicine in India named Ayurveda. According to the world Health

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Biodiversity Management and Role of Rural and Ethnic Women of India : A Review

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ABSTRACT

Biodiversity refers to all the types of life forms around us. People depend on biodiversity to sustain their livelihood in all respects. Indigenous people living in biodiversity rich area possess a wealth of knowledge about biodiversity in their localities. Rural and ethnic women play a significant role in sustainable management of biodiversity. This study revealed that rural and ethnic women of India play a significant role in sustainable management of biodiversity through their daily house hold activities and passed on their traditional knowledge from mother to daughter and through daughter to their grand children and so on

Key words : Biodiversity, Management, Rural and Ethnic Women.

Introduction :

The environment around us consists of diverse types of plants, animals and microbes. Biodiversity or biological diversity refers to the total no. of species (plant, animal and microbes) and ecosystem in a region. Since time immemorial human beings depends on biodiversity to fulfill the necessities for sustaining their livelihood. Biodiversity is an important property of ecosystems for sustained production of services and resources (Costanza & Folke, 1996). Indigenous people inhabiting in biodiversity rich areas possess a great wealth of knowledge of biodiversity which are beneficial for them in various aspects. Traditional knowledge is unique local knowledge existing and expanded within and around the specific

conditions of people indigenous to a particular geographical area (Warren, 1992). This traditional knowledge, the indigenous people acquired, as a result of years of observation and through trial and error are passed on generation after generation orally through their culture. As the indigenous peoples are very close to nature, they possess a vast knowledge about the biodiversity around them and are able to use and share the natural resources judiciously. Sacred groves are the life example of the spiritual aspects in the biodiversity and its use are connected to traditional, cultural, spiritual practices of a large number of people (Natarajan, 2012). Through their deep understanding, the indigenous people play a very important role in biodiversity conservation in various fields like agro-

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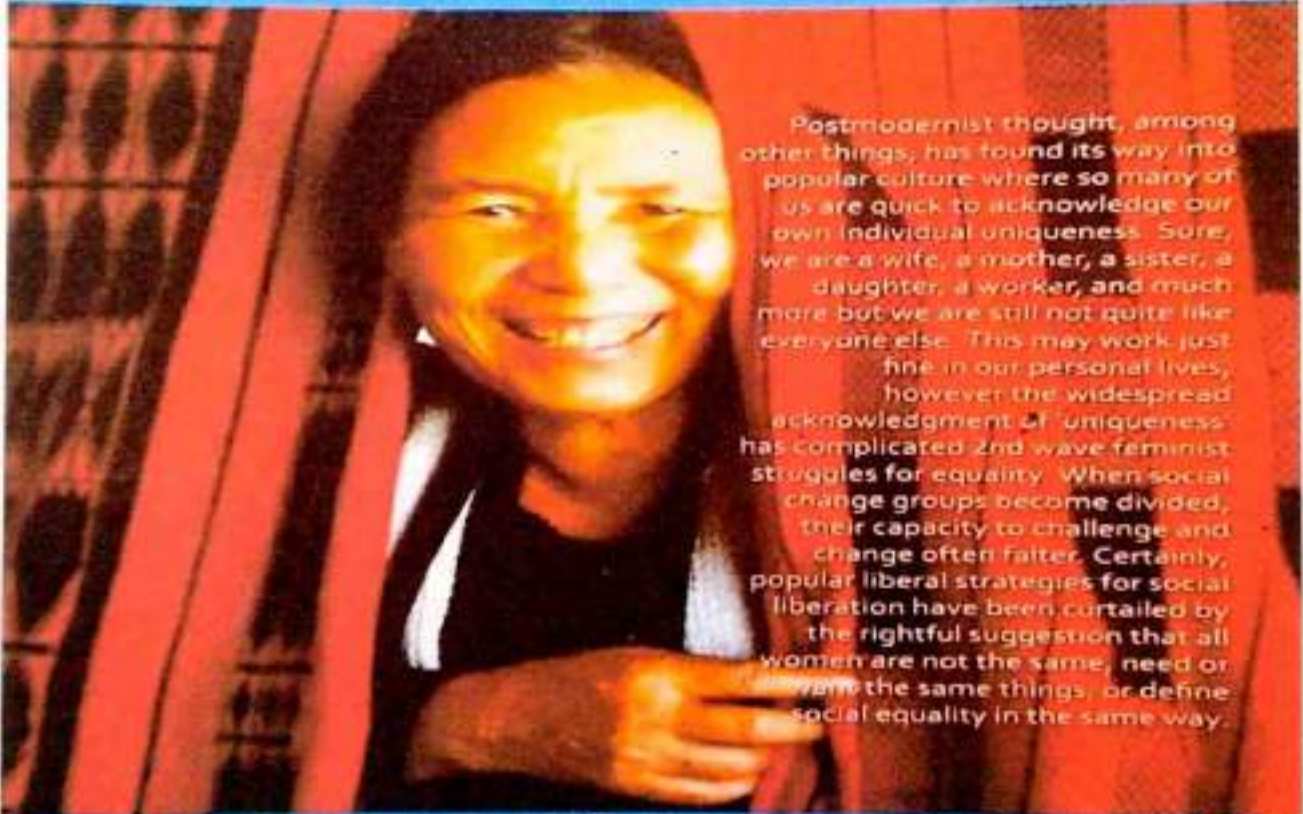
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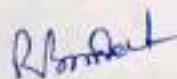
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A Study on Some Medicinal Plants Used by the People of Kakojan Area of Jorhat District With Special Reference to Women Diseases

Ashish Pratim Hazarika
Assistant Professor
Department of Botany
Kakojan College

ABSTRACT

The present study deals with medicinal herbs which are used in various human diseases specially in gynaecological disorders of women by the people of Kakojan area of Jorhat District. The gynaecological problems includes irregular menstruation, abortion, different uterus diseases and pregnancy related issues. Total 20 different plants are recorded, of which 14 plants are widely used by the female population of the study area. The members of the families like Graminae, Rosaceae, Leguminosae, Labiatae, Malvacene, Oxailidaceae, Euphorbiaceae etc. are used by the people of Kakojan area which are distributed in different parts of study area.

Key words : Medicinal plants, Family, Gynaecological disorders.

Introduction :

Since time immemorial mankind have used plant extracts from different plants to cure many diseases and thus sought relief from physical agony. In our country, the traditional system of medicine plays an important role in health care of rural people. India has about 45,000 plant species and more than 35,000 plant species have been claimed to process medicinal properties and are being used in various human cultures around the world for medicinal purposes. Now a days people are aware of side effect of synthetic and chemical drugs and as a result herbal medicine finds way into wide use side by side with modern

medicine. Nearly 80% of the world populations rely on traditional medicines for primary health care, most of which involve the use of plant extracts. India is a country inhabited by a large number of people having diverse ethnic groups. There are over 300 different tribes and other ethnic groups residing mostly in rural areas in India and most of them are still living in the remote forest areas, who depend to a great extend on the indigenous system of medicines. The knowledge of traditional medicine has been continuing for long years and has been transmitted orally from generation to generation.


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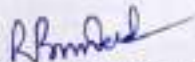
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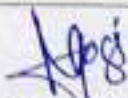
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Man - Elephant Conflict in Assam : An Overview

Mr. Ashish Pratim Hazarika

Man - animal conflict may be refers to interactions between wild animals and human beings causing negative impact on people or their resources or wild animals or their habitat. Man - animal conflict takes place when wildlife requirement overlap with those of human populations. The conflict occurs in many forms like loss of life or injury to humans and animals both wild and domesticated.

Now a days conflict between man and elephant is increasing in various locations of Assam. In Assam the deaths over a hundred of elephants occurs due to the reasons like being hit by trains and electrocution and death of about hundred human beings takes place as a result of conflict with elephant every year.

Each year man-elephant conflict results in approximately 300 human deaths and damage to 10000 - 15000 houses and 8-10 million hectors of crops, while over 200 elephant die due to

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Fern and Fern Allies : A Primitive Plant group of Immense Potential

Babita Phukan Borkotoky

Fern and fern allies, also called the "Pteridophytes", are the primitive group of vascular plants, well known for their beautiful feather like foliage. They bear no flower and mainly reproduce by means of spores. Pteridophytes are considered to be the oldest primitive vascular plant groups on the earth and are the second largest component of this world's flora. Their first traces were recognized in the Silurian period of the Paleozoic age i.e. 400 million years ago. They flourished well during Devonian, Mississippian and Pennsylvanian period of late Paleozoic. Late Paleozoic can easily be regarded as the "Age of Pteridophyta". They grow luxuriantly in moist tropical and temperate forest and their occurrence in different eco-geographically threatened region from sea level to the highest mountain are of much interest. They prefer shady and moist habitats with moderate temperature, but also occur throughout an extraordinary range of habitats including high altitude. They are represented by about 305 genera, comprising more than 10,000 species all over the world. About 191 genera and

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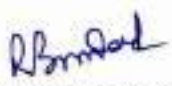
THE STUDY ON ALGAL DIVERSITY OF KAKOJAN AREA OF JORHAT DISTRICT OF ASSAM

Jayanta Duarah

Introduction:

The word "Algae" (singular: alga) used for defining seaweeds and is now applicable to a broad range of organisms from microscopic (micro-alga) to large seaweed (macro-alga) that can be defined similarly in terms of both morphology and general physiology. They are simple chlorophyll bearing autotrophic members of thallophytes comprising a large heterogeneous assemblage of relatively simple plants. Algae may be defined as groups of lower, pigmented plants having simple reproductive organs which are not enveloped by any wall of sterile cells and where zygotes never develop into a multi-cellular embryo while still retained within the female reproductive organs without differentiation into roots, stems and leaves. In terms of physiology, they are fundamentally autotrophic (obtaining all their materials from carbon dioxide and light energy. Some algae have become secondarily heterotrophic, taking up

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Role of ICT in Teacher Education

Mridula Neog

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Department of Chemistry

Kakojan College, Jorhat, Assam

Introduction:

"People in this country have been slow to recognize that education is a profession for which intensive preparation is necessary as it is in any other profession". This concern expressed in the University Education Commission (1948-49). Report is alive in its relevance even today.


National Curriculum Framework for Teacher Education (NCFTE, 2009) elaborates the context, concerns and vision underscoring that teacher education and school education have a symbiotic relationship. Developments in both these sectors mutually reinforce the concerns necessary for qualitative improvements of the entire system of education, including teacher education as well. According to UNESCO (2002) "ICT is a scientific, technological and engineering discipline and management technique used in handling information, its application and association with social, economic and cultural matters". Teachers must have the knowledge and skills to use new digital tools to help all students to achieve high academic standard.

ICT is one of the major cotemporary factors shaping the global economy and producing rapid changes in society. They have fundamentally changed the way people learn, communicate and do business. They can transform the nature of education, where and how learning takes place and the roles of students and teachers in the learning process.

Information Communication Technology can be defined as tools and applications support through which or by means of which information is transferred, recorded, edited, stored, manipulated and dissimilated with enormous quantities in the minimum possible time. Basically ITC is a combination of informatics technology with other related technologies, specifically communication technology. ICT relates to all those technologies that are used for accessing, gathering, manipulating and presenting or communicating information.

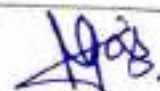
Relevance and Necessity of ICT in Teacher Education:

The importance and advantages of using information and communication technology (ICT)


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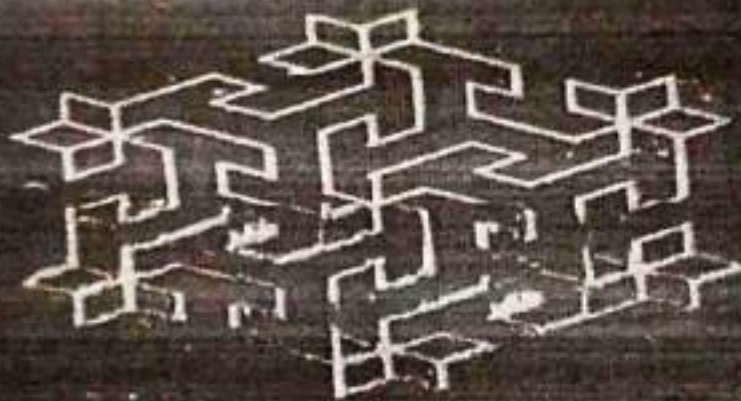
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সম্পাদক
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ড° মধুমিতা সন্দিকৈ


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Contribution of Women Scientist: A Brief Retrospective

The contribution of women scientists towards human society since the time of ancient days is regarded highly in all over the world. In India also, the list of women scientist is a long one and it continues to work in different field of science for betterment of people of our country. Only a few days ago, India's some women scientists were seen engaged in India's Mars Orbiter Mission (MOM) in ISRO. It is a great feeling seeing Indian women scientists celebrating the success of the mission wearing sari-clad. Though women scientists from different part of the world contributed a lot to human society, but it is often said that the women scientists are fewer in number than men and they occupy fewer positions of power. But this is because of the reason that women have to bear lots of responsibility of a family. Recently, Wikipedia opened a website where women scientists can upload their research work and can also study the research work of other women scientists by registering themselves in the website.

However the time is changing and the number of women receiving an education in sciences in all over the world is increasing every year. In the last part of 19th century, many European countries established women educational institution and gave importance on women education. Since then the trend is increasing gradually and is spread worldwide. Some Indian Women Scientists who have enriched India by their contributions to science and became source of encouragement for others are-

Anandibai Joshee (1865-1887)— she along with Kadambini Ganguly was one of the first Indian women doctors qualified to practice

19/01/2017/01

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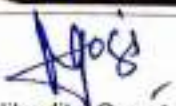
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প্রবজ্যোতি শহীকীয়া

শিক্ষক গোট
কাকজান মহাবিদ্যালয়


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An Ancient and Current aspect of Nanomedicine

Dr. Partha Pratim Baruah

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Ayurveda is thousands of years old holistic system of Indian medicine. It is a well established science of ancient Indian

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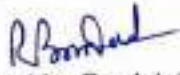
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The present application of computer algebra is reviewed for its use in physical and quantum chemistry. During the past five decades, computers have radically changed the image of science. Today a great deal of simulations and extensive computations are carried out in almost all scientific areas, including quantum chemistry, physics, meteorology, robotic and even biochemistry. New generations of general purpose Computer Algebra System (CAS) such as MATHEMATICA, MATLAB, MAPLE and several others, have been developed and enable their users today to solve complex tasks within a uniform framework and usually at one and the same platform.

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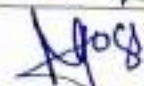
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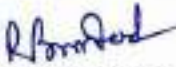
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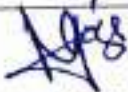
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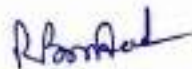
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GROUP OF SYMMETRY IN CRYSTAL STRUCTURE

Jita Dutta


INTRODUCTION :

The basic feature of all crystals is the regularity of their atomic arrangement. This is a basic unit in each structure, that when systematically repeated in three dimensions produce the whole structure. The characteristic feature of crystal structures is periodicity of their patterns. A given crystal may possess one or more than one type of symmetry. In addition combinations of symmetries are possible. It has been proved that 230 combinations of symmetry elements are possible [5]. In the early days of crystal structure determinations it became clear that the laws governing the packing of atoms and molecules must be understood, that crystal structures have to be classified and ordered and that relations between them must be recognized. Meanwhile more than 400000 crystal structures have been deposited in database [6]. The most noticeable features of almost all the crystals are the regularity of arrangement of their faces. A well developed crystal has parallel faces and the three

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**A Multidisciplinary Book on
Science and Humanities**



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Kakojan College, Jorhat, Assam (India)**

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Symmetry in Nature

Subhasis Kotoky
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Symmetry in everyday language refers to a sense of harmonious and beautiful proportion and balance. In mathematics “Symmetry” has a more precise definition, various transformations; including reflection, rotation or scaling. Although these two meanings of “Symmetry” can sometimes be told apart, they are related, so they are here discussed together.

Mathematical symmetry may be observed with respect to the passage of time; as a spatial relationship; through geometric transformations; through other kinds of functional transformations; and as an aspect of abstract objects, theoretic models, language, music and even knowledge itself.

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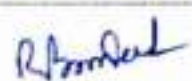
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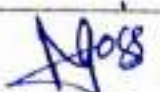
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Application of Symmetry of Plane Figures

Subhasis Kotoky

Introduction:

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 that other sense symmetry denotes the sort of concordance of several parts by which they integrate into a whole. Thus beauty is bound up with symmetry. A symmetry of a figure is a rigid motion which leaves the figure unchanged. A symmetry is a rigid motion which leaves the figure looking exactly the way it started.

(A plane figure is symmetric about a line if it is its own image when flipped across the line. In other words, a figure has a line symmetry if it can be folded along the line so that one half of the figure matches the other half.)

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

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Black Body Radiation

Sanjib Borah

Introduction:

A black body is a theoretical object that absorbs 100% of the radiation that fall on it therefore it reflects on radiation appears perfectly black. The term black body was first introduced by Gustav Kirehnhoff In 1880. In practice no material has found to absorb all incident radiation, but carbon in its graphite form absorbs all about 3%. It is also perfect emitter of radiation. At a particular temperature the black body would emit the maximum amount of energy possible for that temperature. This value is known as black body radiation. It is the type of electromagnetic radiation, emit at every wavelength of light as it must be able to absorb every wavelength of incident radiation. The maximum wavelength emitted by a black body radiation is infinite it also emits a definite amount at each wavelength for a particular temperature. So standard black body radiation curves can be drawn for each wavelength for each temperature, showing the energy radiated at each wavelength. An object emits radiation above absolute zero. So, black body radiation so term as the thermal radiation.

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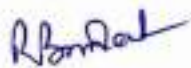
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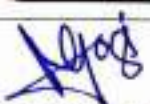
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Quantum Dots and its applications

Dhrubajyoti Sarmah

Introduction and Discovery of Quantum dots:

Quantum dots are very small semiconductor particles with diameters in the range of 2 to 10 nanometres, so small that their optical and electronic properties differ from those of large particles. A majority of quantum dots have the ability to emit light of specific wavelength if excited by light or electricity. Quantum dots were discovered in solids (glass crystals) in 1980 by Russian physicist Alexei Ekimov while working at the Vavilov state optical institute. In 1982, American chemist Louis E. Brus, then working at Bell Laboratories (and now a professor at Columbia University), discovered the same phenomenon in colloidal solutions (where small particles of one substance are dispersed through another). He discovered that the wavelength of light emitted or absorbed by a quantum dot changed over a period of days as the crystal grew, and concluded that the confinement of electrons was giving the particle quantum properties. These two scientists shared the Optical Society of America's 2008 R. W. Wood prize for their

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শিক্ষক গোট
কাকজান মহাবিদ্যালয়


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A Study on Wild Life Conservation and Management Practice

Junmoni Baruah


Introduction:

Wild life is a renewable resource like soils, water and forest as it can be used time again without being destroyed and so there is a need for conservation of wildlife. Thus conservation means the utilization of renewable natural resources in such a way that there are not destroyed but can be used later. Conservation of wild life involves scientific measures for protection, preservation and management of perpetuation of the population of rare species of animals and plants in their natural habitat.


The term conservation was coined by the Forestes Gifford Pinchot in 1907 to describe the philosophy that the environment must be manage to assure adequate supplies of natural resources for present and future generation. Thus wild life conservation means "a social process encompassing both lay and professional activities that define to seek and to attain wise use of wild life resources and maintain the productivities of wild

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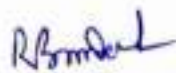
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GLOBAL ENVIRONMENTAL ISSUES AND THEIR IMPACT

Prasanna Hazarika

Both developing and developed nations are facing serious environmental problems. However, some of the problems are of global magnitude such as global warming of the planet earth, acid rain, drought, depletion of ozone layer while the others are specifically confined to localized region. One will not involve in any issue of environmental awareness until and unless he or she realizes and visualizes the various aspects of environmental degradation such as Air pollution, water pollution, soil pollution, noise pollution, loss of Biodiversity, Desertification, Deforestation etc.

Global warming:

The phenomenon of trapping and re-radiating of heat by greenhouse gases in the atmosphere is referred to as global warming or greenhouse effect. The 'natural greenhouse effect' keeps Earth's Surface warm and at roughly constant mean global temperature of +15°C.

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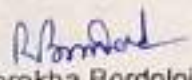
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শ্ৰবজ্যোতি শহীকীয়া

শিক্ষক গোট
কাকজান মহাবিদ্যালয়


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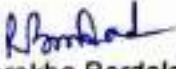
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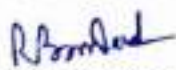
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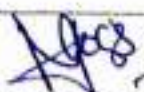
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SOCIETAL CONSCIOUSNESS AND HEGEMONIC DILEMMAS IN FEMALE FOETICIDE AND INFANTICIDE: AN INTROSPECTIVE REFLECTION

Dr. Nibedita Gogoi

Female feticide and infanticide has been the ritual among many cultures throughout history. This custom has been practiced on every continent and by people on every level of cultural hierarchy from hunter gatherers to high civilizations (Williamson, 1978). In ancient Greece and Germany they practiced exposure, just leaving the child in forest without food. In China female infanticide was practiced by putting the newborn into a bucket of coldwater. In ancient India parents threw their children into the Ganges as a sacrificial offering. Till now female feticide is prevalent in our country as a major social evil. The patriarchal social structure of India gives a secondary position to women. Girls are always given less priority and respect than sons from the ancient time. Girls have never got similar access in the areas of education, healthcare, nutrition, sport etc. like boys. The natural sex ratio is determined by factors such as

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Dr. Bipin Hazarika: A Political Visionary

Dhrubajyoti Saikia

Politics and its allied concepts are two inseparable parts of democratic system of modern era. But the political and social conditions in Assam have been so complex that the development of democratic system is still a long process. In this context, the political vision of Dr. Bipin Hazarika is a political vision which is not only a political vision but also a social vision. Dr. Bipin Hazarika is a political visionary who has been working for the welfare of the people of Assam. He has been working for the welfare of the people of Assam. He has been working for the welfare of the people of Assam. He has been working for the welfare of the people of Assam.

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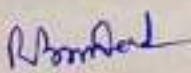


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PROBLEMS AND PROSPECTS OF MUNICIPAL SOLID WASTE MANAGEMENT IN JORHAT

Mr. Ashish Pratim Hazarika, Assistant Professor, Department of Botany,
Kakojan College, Kakojan, Jorhat, Assam

Abstract:

Solid waste management is one of the most essential services for smooth functioning of human society in the urban areas. Currently available data shows that about 62 million tones of municipal solid waste is being generated annually by 377 million people of the urban areas in India. About 80% of these solid wastes are disposed at dump yards in a very unscientific method by the district municipal authorities which causes human health problems as well as environmental degradation. Municipal solid waste management is one of the biggest challenge for any district administration particularly in the fastest growing cities of Assam. Jorhat is one of the rapidly growing cities of upper Assam which is developing as an educational, economic and commercial hub. The solid waste generated in the city is managed by Jorhat Municipal Board, which is situated at the heart of the city. Increasing population, faster urbanization, lack of public awareness etc. are associated with the problems related to solid waste management in Jorhat district. The current study assesses the present solid waste management scenario, the challenges associated with the process, the problems related to the present waste treatment techniques of the district and some recommendations for the better management.


(key words)- solid waste, human health, environmental degradation, urbanization, public awareness

Introduction

Solid waste management has emerged as a major challenge for human society. From the time immemorial waste has remained an inseparable part of human civilization. Now a day the solid waste generation in modern society is increasing due to rapid population growth and faster urbanization. The increasing load of waste has created health problems to human beings as well as to animals along with environmental problems also. Solid waste is on its way as a result of urbanization and industrialization. (Sharma 2004)

Currently available data reveals that about 62 million tones of Municipal solid waste generated annually by 377 million people of urban areas in India. About 80% of these solid wastes are

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Composition and Distribution of Hydrophytes in North East India

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A STUDY ON HYDROPHYTIC FLORA OF SIVASAGAR SUB-DIVISION OF SIVASAGAR DISTRICT, ASSAM

Mr. Jayanta Dhaarah
Assistant Professor, Botany department
Kakojancollege, Jorhat

Abstract:

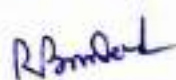
Hydrophytes are plants in which the root, when present, are a part or whole of the shoot are submerged in liquid water (Kocher 1994). Water condition being uniform, there are fewer adaptations in aquatic plants than in xerophytes which grow in most varied conditions. The hydrophytic plants are readily fall into following categories-(Gupta, 1984): 1) Free floating, 2) Anchored floating, 3) Anchored emerged, 4) Submerged, 5) Suspended, 6) Semi-aquatic.

The anchored plants are better adapted as they easily obtain mineral supply from the mud at the bottom of water. The root system of hydrophytes is poor or not at all branched. In some case they are altogether absent. The examples are *wolffia*, *ceratophyllum*, *salvinia* and *Utricularia*. The roots are mostly devoid of root hairs. (e.g. *Lemna minor*, *Nymphaea* spp.) so that the entire root can absorb water and dissolved minerals. The Conducting tissue occupies the central position and is not surrounded by any sheath.

Phytogeographically, the sivasagar district of Assam is considered as a part of the foot hill region of the Eastern Himalaya. This district is situated in the sub tropical zone of the Northern Hemisphere. The subtropical climate as well as the influence of the Himalaya encouraged in accumulating a high diversity of floristic elements in the district as well as entire North East (NE) India. The flora of Assam is getting a separate identity amongst the flora of entire NE Indian mostly because of its lower altitudinal swampy elements. Hens forth, it is proposed to explore the hydrophytic flora of the sivasagar sub division of sivasagar district, Assam. From the above study I got a total of 60 different species of hydrophytic plants belonging to monocot, dicot, fern, & Algae. These species were belong to 42 different hydrophytic genera and 26 different hydrophytic species.


Key words- Hydrophytes, phytogeography.

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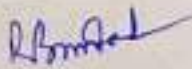
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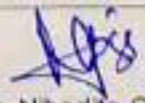
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শ্ৰবজ্যোতি শইকীয়া

শিক্ষক গোট
কাকজান মহাবিদ্যালয়


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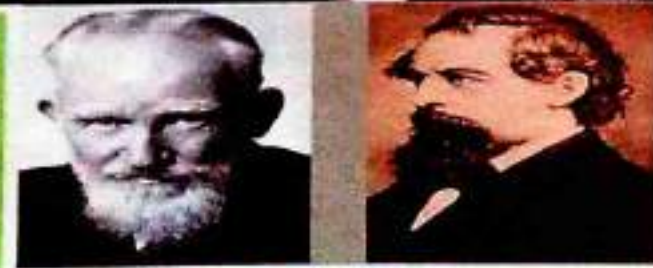
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Reflection a literary voyage

Society that come alive in Victorian novel : A small-scale discourse

Dr. Pankaj Goswami

Assistant Professor, Department of English

The novel became by degrees in Victorian times, increasingly important as a literary medium. Though regarded a century earlier as appealing only to light-headed girls who might have spent their time in better occupations, it now won a position as the most respected of prose form. Among the Victorians there is, for the first time, an imposing number of novelists, and an equal impressive variety of style and subject-matter. The Victorian novel in a many sided affair and it deals with various themes and it differs in theme to author. Some of the common characteristics of all the Victorian novelists and at least most of them are : of the age, a moral purpose and a certain weakness for moralizing.

The Victorian era was an era of rapid flux and baffling complexity. The material and scientific progress had its influence upon the Victorian life and it was inevitable that it should expressed through its prose, poetry and fiction. The novel being a popular medium of expression, sought to do for society in their age previously what Charles Hyell and Darwin sought to do for science, that is, that is to find the truth, and show how it might be used to uplift humanity.

The Victorian novelists may miss the heights and depths of human passion, there may be no probing of the human heart, and no psych - analysis as in the modern novel, but they cast their nets very wide. Novels like Vanity Fair, David Copperfield etc. are not like most modern novels, concentrated wholly on the life and fortunes of a new principal characters they also provide panoramas of whole societies. In the Victorian novels,

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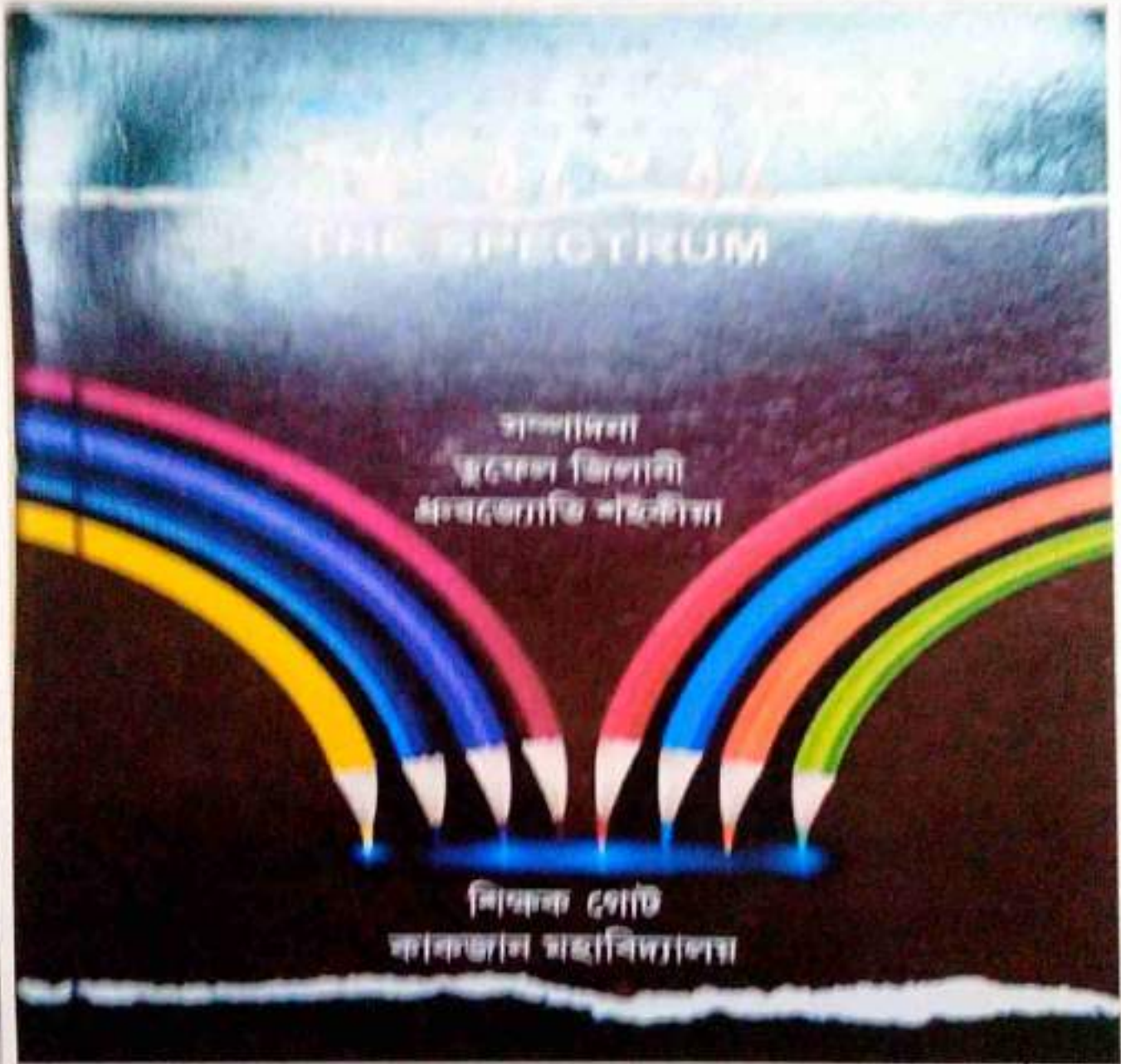
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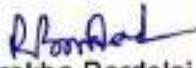
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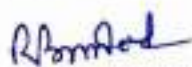
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Forgotten Patriot of 1857 – Lukinath Shensuwa Boruah

Tufail Zilani

Fifteen kilometre down the National Highway from the city of Jorhat in the east is a rural area – Kakojan. Emerging from Naga hills, following down the 'Kako' (Bamboo), a small brook crosses the highway in this place and flows fast to meet the old brimming river 'Burhaluit' (Brahmaputra). On the bank of this small stream, Hindus and Muslims are woven together into a beautiful society – Kakojan. This agri based society, though mildly enlightened with modernity still retains its rural characteristics. The intellectual society of Kakojan is deeply moved at the vicinity of Jorhat, the cultural, educational, intellectual capital of Assam.

A number of people from Kakojan have played definite roles in bringing glories to Jorhat. A historical hero from Kakojan was Lukinath Shensua Baruah, who was a pioneering fighter of a freedom-loving nation – Assamese.

বর্নালী... THE SPECTRUM

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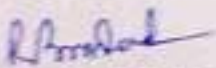
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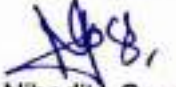
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Rituals and Festivals of the Turung Community of Assam

Dipti Tamuli

Assam is a land where different people from different communities with different religious faiths have been living peacefully since long time back. The beauty of the land becomes more attractive because of its different ethnic cultures and costumes. It can boast of its colourful culture, its variety in ethnic dresses and jewellery, its folksongs and music.

Shyam community is such a community in Assam whom the historians identify as Tai – Turungs. The origin of the Tai – Turungs is in Burma and because of socio-political or economic causes these people migrated to Assam. Their migration increased in the 18th century but still their number is limited. The main sects of the Tai people are Taikhamti, Taiphake, Taikhamyang and Tai Aiton. These sects are descendents of the Ahoms but their religion is Buddhism. The Tai people are scattered in the different districts of Upper Assam but unity prevails among

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প্রবজ্যোতি শহীকীয়া

শিক্ষক গোটি
কাকজান মহাবিদ্যালয়


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SOCIAL EXCLUSION OF WIDOW IN ASSAM: A SOCIOLOGICAL STUDY WITH REFERENCE TO TEOK, JORHAT DISTRICT

Borsha Rani Bora
Minakshi Mili

Introduction:

Social exclusion is a form of discrimination. It is a process in which individuals are systematically blocked from various rights, opportunities and resources that are normally available to members of different groups. Social exclusion is the act of making certain groups of people within a society feel isolated and unimportant. In India lower caste, tribes, women, transgender, widows are the major excluded groups, which have been facing lots of discriminatory treatment from society. In India, which is characterized by Patriarchy in nature, widows are one of the major excluded group. Indian women is triply discriminated against as women, as a widow and as poor widowed women. In India or other elsewhere, irrespective of caste, class, race, widows are discriminated in society.

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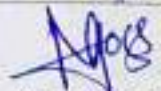
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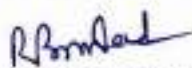
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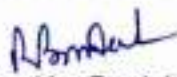
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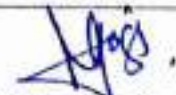
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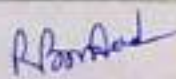
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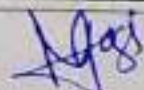
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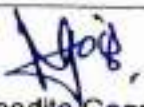
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The Historical Significance of Jorhat in Early Ahom Period

Sarmistha Goswami

It is very difficult to collect detailed account of Jorhat in pre-Ahom period. It was just after the establishment of the Ahom rule, some authentic information regarding this place became available. In 1794 the Ahom capital was shifted from Rongpur to Jorhat, since then Jorhat continued to be the center of Ahom administration till the end of the Ahom rule. It is true that establishment of the capital had increased the significance of Jorhat to a great extent yet it cannot be denied that even before it was selected as the capital, Jorhat was considered by the Ahom rulers as one of the indispensable part of their kingdom.

At present Jorhat represents a thickly populated place full of lives, but there was a time when this area was covered with dense forests and miles long paddy fields in all directions. Under the Ahom rule gradually Jorhat attracted the attention of various Ahom kings, the predecessors of king Gaurinath Singha used to construct various roads, temples, royal mansions in this area which proved that Jorhat was one of the remarkable seats

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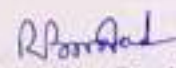
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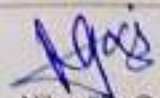
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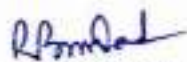
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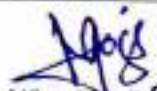
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Socio-Economic aspect of the Karbi's of Karbi Anglong


Joyashree Saikia

Assam is the meeting ground of different groups and tribes like Mishing, Deori, Rabha, Koch, Kachari, Moran, Hajong, Tiwa, Dimoria, Karbi, Bodo, Singphow and many more. They have made the state the home of a long procession of most colourful folk festivals which are full of passions, mesmerising and reflecting the true spirit of tradition and life style of the people. Assam is well reflected in the chain of folk-festival like Bihu, Baisagu, Ali-ai-ligang, Bahagi utsav, Rongkher, Cammankan, Narachiga Bihu and many more.

The Mikirs of the earlier days are presently known as the Karbis who constitute one of the major fractions of the Tibeto-Burman population. They reside both in the plains and hilly districts of the province of Assam and the most predominant group of their population reside in the Mikir Hill district which is known as Karbi-Anglong. The Karbi people live in village. All selected villages have one common headman called 'Gaon-

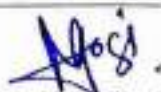
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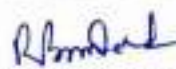
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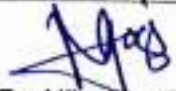
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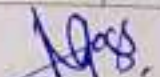
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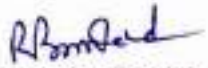
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আহোম ৰাজত্বৰ বিচক্ষণ ৰাজমন্ত্ৰী : কনচেং বৰপাত্ৰগোহাঁই

লক্ষ্য প্ৰতিম নিৰ্মলীয়া

ভাৰতৰ উত্তৰ-পূব দিশত অৱস্থিত অসম হ'ল উত্তৰ-পূৰ্বাঞ্চলৰ অন্যতম ওকতপূৰ্ণ ৰাজ্য। প্ৰাগজ্যোতিষপুৰ ৰূপে পৰিচিত এই ৰাজ্য আৰ্যসকল অহাৰ পিছত কামৰূপ নামেৰে জনা হৈছিল। আহোম সকল আহি শাসন কৰিবলৈ লোৱাৰ পিছত কামৰূপ নাম সলনি হৈ অসম নামেৰে জনাজাত হৈ পৰিল। অসমলৈ আহোমসকল অসমৰ ৰাজনৈতিক অৱস্থা সুস্থিৰ আছিল যদিও বিভিন্ন স্থানত বিভিন্ন ক্ষুদ্ৰ ক্ষুদ্ৰ জনগোষ্ঠীসমূহে স্বাধীন হিচাপে শাসন কৰি আছিল। বিশেষকৈ মৰাণ, বৰাহী, চুতীয়া, কছাৰী আদি জনগোষ্ঠীয় লোকসকলে নিৰ্দিষ্ট পৰিসীমাৰ ভিতৰত আছিল। কিন্তু আহোম ৰাজ্যৰ প্ৰতিষ্ঠাপক চাউল্যুঙ চ্যাকাফা অসমত আহি স্থায়ী ভাবে বসবাস কৰিবলৈ লৈ এক নতুন সুস্থিৰ ৰাজনৈতিক বাতাবৰণ সৃষ্টি হৈছিল। যি বাতাবৰণে ক্ষুদ্ৰ ক্ষুদ্ৰ ভাগত বিভক্ত হৈ শাসন কৰি থকা জনগোষ্ঠী সমূহক একতাৰ ডোলেৰে বান্ধ খাই মিলা প্ৰীতিৰে বসবাস কৰাৰ ক্ষেত্ৰত এক নতুন দিগন্তৰ সূচনা কৰিছিল। অৱশ্যে আহোম সকলৰ লগত এই চুবুৰীয়া জনগোষ্ঠীসমূহৰ মাজে সময়ে সংঘৰ্ষও সংঘটিত হৈছিল। যি কি নহওক, চাউল্যুঙ চ্যাকাফাই প্ৰতিষ্ঠা কৰা আহোম ৰাজ্যৰ পৰিসীমা বৃদ্ধি পাইছিল চুহুংমুঙ দিহিঙীয়া ৰজাৰ শাসনৰ সময়ত। কছাৰী আৰু চুতীয়াসকলক পৰাস্ত কৰি আহোম ৰাজ্যৰ সীমা বৃদ্ধি কৰাৰ লগতে আহোমসকলৰ

বৰ্ণনোঁ... THE SPECTRUM

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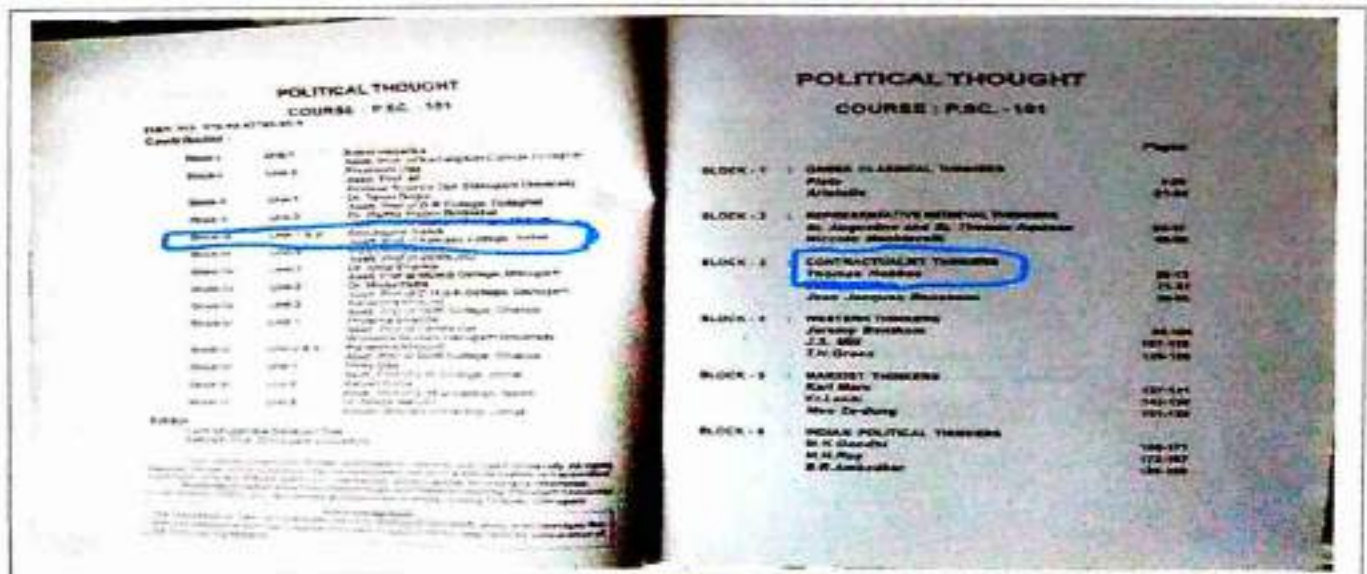
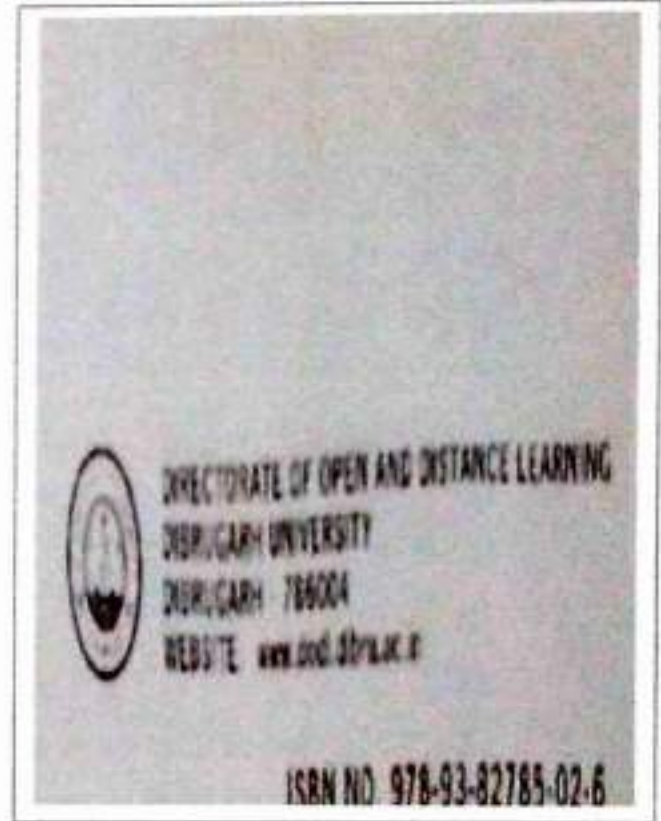
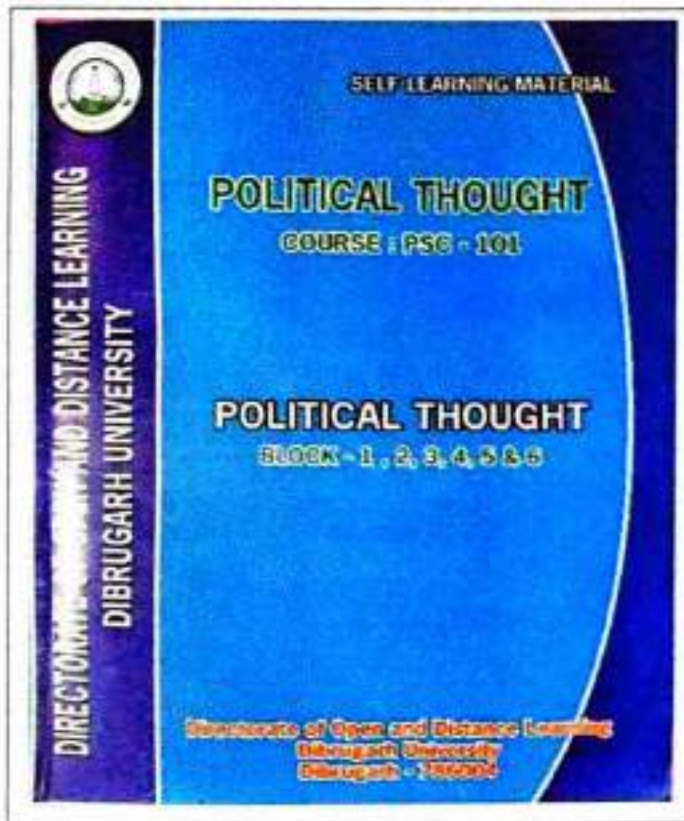
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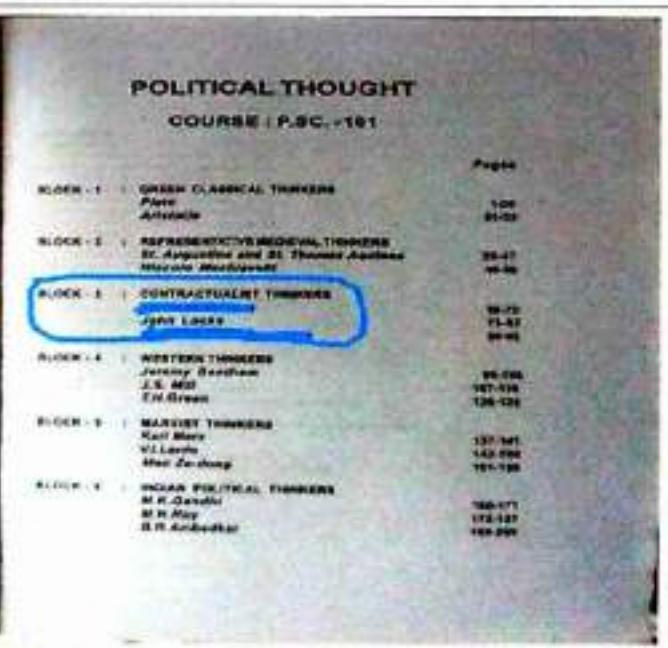
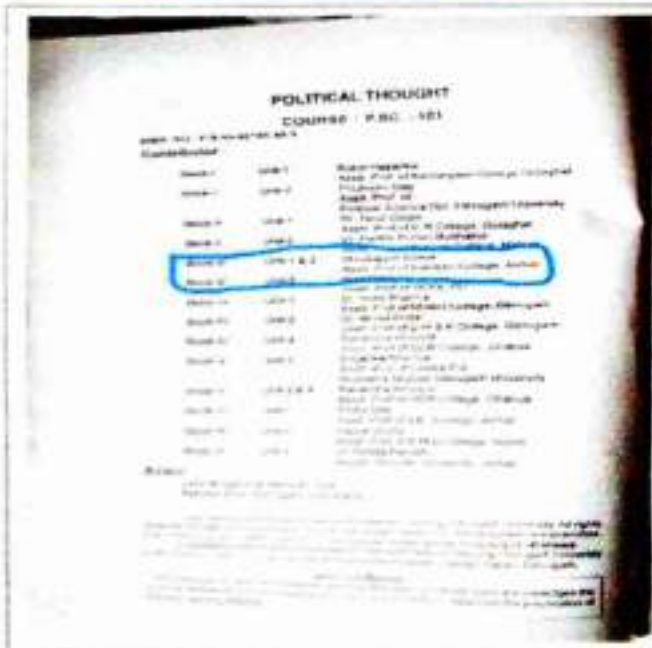
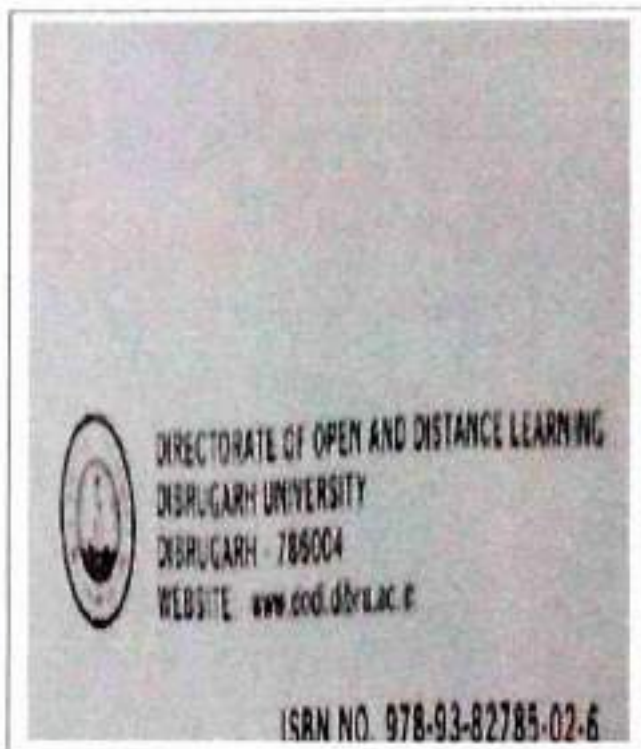
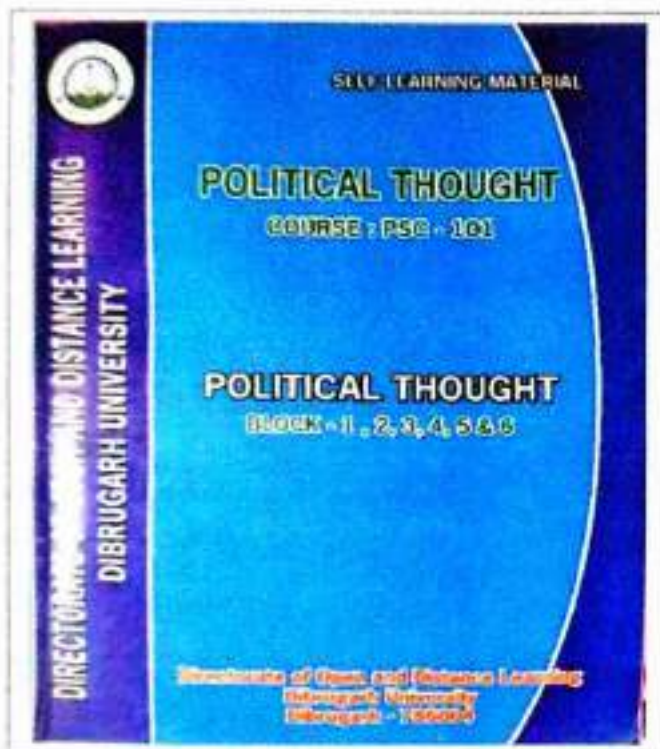
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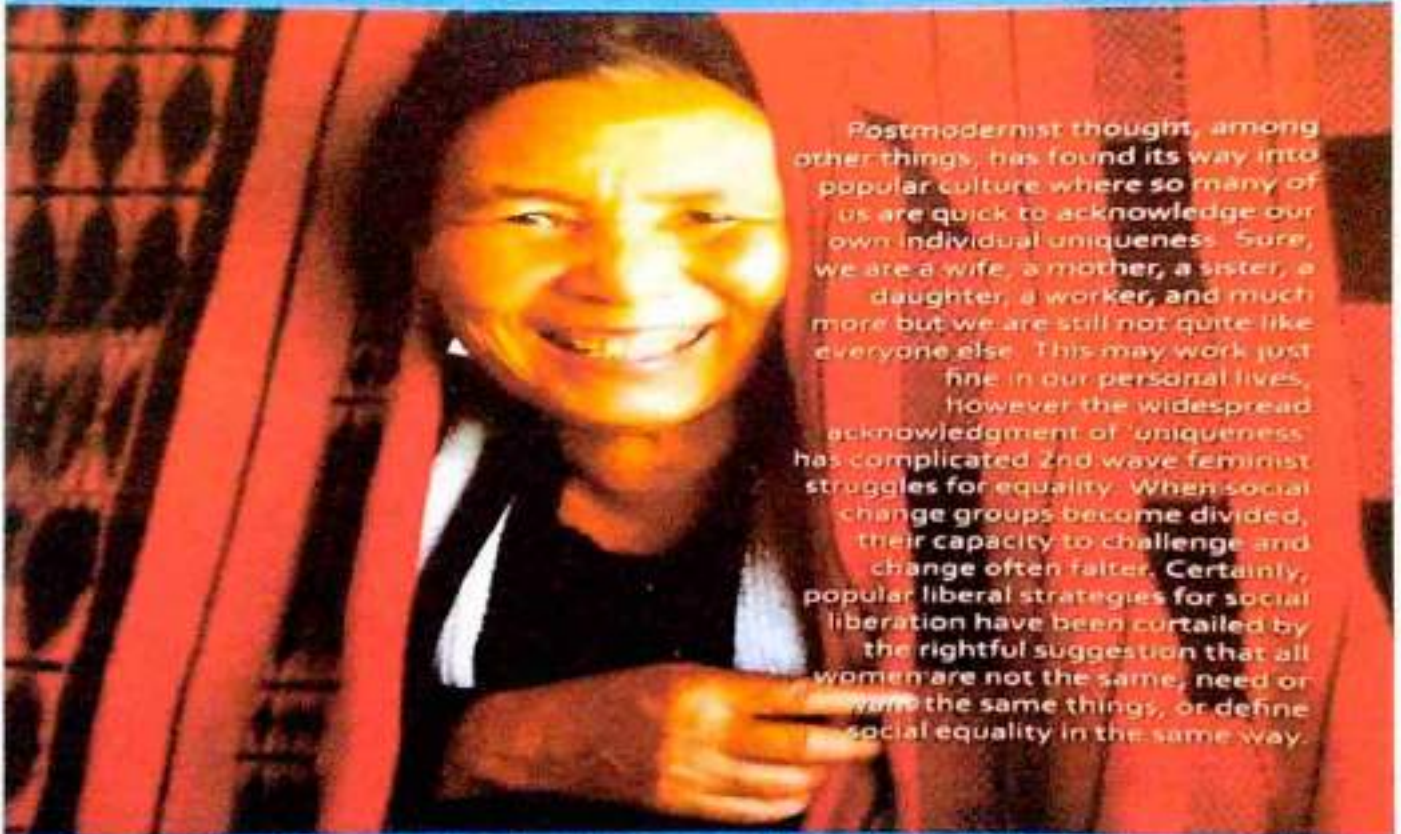
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Postmodernist thought, among other things, has found its way into popular culture where so many of us are quick to acknowledge our own individual uniqueness. Sure, we are a wife, a mother, a sister, a daughter, a worker, and much more but we are still 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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PARTICIPATION OF WOMEN IN EDUCATION IN INDIA, ITS CHANGING NATURE AND THE PRESENT SCENARIO

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Though men and women are equal in society, but in various aspects women remain behind men. The participation of women in education is comparatively less than men from the ancient. But at present in India, due to the various measures taken by the Government, it has been increased. But the gender stereotyped scene in technical higher education is still noticed in India even today. But gradually it has also increased compared to 19th century or before. So though complete elimination of gender bias is not noticed, but there has been gradual increase in India in terms of education. **Key word:** literacy rate, gross enrolment, gender gap, SSA.

Though men and women both are the inseparable part of society, women always deprived or discriminated in all the spheres of the society. Gender inequality in India can be seen in health, education, economic and politics etc. According to the Liberal Feminism, men and women should have equal rights. Liberal Feminist John Stuart Mill Has mentioned that three major parts of women's life that hinder them are society and gender construction, education and Marriage. In India, women achieve far less education than that of men (Sain, Kaware, 2013). In the Vedic period, though women were eligible for taking

education, they had equal right to education as of men. But gradually it was decreasing toward the Muslim rule. But by the touch of Missionaries and Governmental efforts towards women's education, there has been some beneficial consequences for girl's education (Agarwal, 1992). To provide education for all, EFA was launched in 2002 by the Government of India to make education as fundamental right of every child of the age of 6-14. Government efforts have been taken the improvement in Elementary, Secondary and Higher Education for women which tends to reduce gender gap in the same (*op.cit*). One of the most significant worldwide transformations in education over the past several decades has been the drastic increase in women's access to colleges and Universities. The trend of the narrowing gender gap in higher education is remarkable (Nozaki, Aranha, 2009). This paper makes an attempt to study the position of education of women in India at present time. Basically it tries to examine in an exploratory manner whether after adoption of various measures by Govt. of India gender equality at the educational level has been achieved or not.

Objectives of the Study:

1. To study about the changing scenario of women's education in India at present

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