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Multi-disciplinary



Dr. Ghuge Sunil Balu is working as an Assistant Professor in MGVS Arts, Science & Commerce College, Surpeta, Nashik, Maharashtra. He has completed his M.A. (Economics), B.E.E., Ph.D from Savitribai Phule Pune University. He has published 30 research paper in various National and International Journals. He has edited book and written book chapters in four books. He passed the D.C.I. Examination in 2004 at Savitribai Phule Pune University with second place. He writes his financial issues in various newspapers. He received state level Tata Topo right award.



Dr. Mangla Tomar is an Assistant Professor in G. K. College of Commerce, Wartha, Maharashtra. She has been working in this organization since 2001. She is M.A., M.Ed, M.Phil and Ph.D. She has around 25 papers/presentations distributed in National and International Journals. She has distributed a book named 'English for Beginners.' She has written book chapters in 10 different books. She is likewise associated with Cambridge University and running two Cambridge courses: Business English Cambridge Exam (Preliminary Level) and Business English Cambridge Exam (Vantage Level). She, at the end of the day, has finished these assessment and now advancing students. She is additionally directing undergraduates for Banking Certificate Course in Insurance and Finance run by Bajaj Finance.


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A Study on the Growth and Development of Women's Empowerment through Education in the District of Bankura

Paramita Adhikari, Sreyam Roy & Krishnendu Sen

Chapter-20

A Study on the Growth and Development of Women's Empowerment through Education in the District of Bankura

Paramita Adhikari¹, Sreyam Roy² & Krishnendu Sen³

State-aided College Teacher, Department of English, Serampore Girls College, Serampore, Hooghly, West Bengal¹

State-aided College Teacher, Department of Commerce, Vijaygarh Jyotish Ray College, Jadavpur, Kolkata, West Bengal²

Assistant Professor, Department of Commerce, Vijaygarh Jyotish Ray College, Jadavpur, Kolkata, West Bengal³

Abstract

While a majority of the women still face discrimination and gender bias, in the last few decades, the number of women successful in politics, technology and business etc. is definitely on the rise. Society has started seeing women in a different perspective. They work as lawyers, nurses, doctors, social workers, teachers, secretaries, managers and officers etc. There is no profession today where women are not employed. However, it is true that working women have to face problems by virtue of their sex. For centuries women have been subjected to exploitation and torture, physically, sexually and mentally. There are innumerable challenge and problems faced by them both at home and workplace. What we generally see today, in addition to various media and journal reports is that in the workplace women generally face mental stress, sexual harassment, discriminatory practices, safety and security issues etc (Martin, 1989). India's patriarchal society thinks of women only as homemakers and sexual objects and is generally subjected to exploitation and torture (Dube, 2001). All over the world women remain beyond the reach of development project. In all components of human development, women's position is lower than men. In this part of our study is intended to estimate, empirically, the empowerment level of women of Bankura District. Using a set of primary data the significant determinants of the women's empowerment to be

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explored. In this study, we examine the effects of several 12 individual and community characteristics like age, education, occupation, income, financial inclusion, membership in SHGS, caste etc. on women's empowerment.

Keywords: Women empowerment, Development, Society.

Objectives of the Study

Empowerment is not only qualitative in nature; it has a number of definitions also depending on the context of the study. Meaning of empowerment varies from person to person and region to region, caste to caste, ethnicity to ethnicity. So, it is not very easy to propose a common measure for empowerment or quantify it. We want to divide our whole study into three steps. First, we have tried to quantify women's empowerment. Second, we assess the impact of women's empowerment on household welfare and third step is the exploration of the determining factors of women's empowerment in the district of Bankura, West Bengal. There are several dimensions of women's empowerment at the household level as well as at the community level. Therefore, it is necessary to



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Chapter 12

A Study of Corporate Social Responsibility Practices in India with Respect to Changing Global Scenario

Sreyam Roy, Krishnendu Sen, Manisha Choudhury

Abstract

In recent times, there has been an emergence of Corporate Social Responsibility (CSR) in the corporate sector globally. Majority of the world organizations (UNDP, OECD, European Commission, MNCs & World Bank) today have actively supported the CSR campaigns that have been initiated by various corporates over the world. Though practices of CSR are still philanthropic, now there has been a recognition of the relevance of CSR initiatives in community development, institutional growth and nation-building. CSR has a major role in synergizing the efforts of organizations and the social sector agencies towards the development and growth of societal objectives at large. In India too the corporate sector is well aware of its CSR objectives and its direct influence on the stakeholders as necessary provisions have been made mandatory following an amendment to the Companies Act, 2013 in April, 2014. The new Companies (Amendment) Act, 2019 has also mandated certain provisions for CSR and monetary penalty as well as imprisonment in case of non-compliance of such provisions.

This paper will discuss the various emerging CSR initiatives that are being undertaken by the Indian companies and suggest a standard set

of CSR practices leading to global convergence and coherence among such practices.

Key Words: CSR, Community Development, Institutional Growth, Stakeholders, Convergence

CSR can be regarded as a self-regulating and voluntary mechanism by which the corporates give back to the society from which it has extracted many benefits for its development. The companies need to abide by a set of legal, social, ethical and ecological standards and also at the same time measure the impact it has on the society encompassing different social, economic and environmental aspects. CSR acts as a bridge between the society and corporate business practices through various social interactions.

Corporate Social Initiatives are major activities undertaken by a corporation to support social causes and to fulfil commitments to CSR (Kotler & Lee). Simply stated, CSR is a concept which suggests that commercial corporations must fulfil their duty of providing care to the society (S.K. Agarwal).

According to this concept a merger of business practices and social investment initiatives is made while fulfilling its profit and revenue targets. For example, steps taken by a corporate entity to

COVID-19 & YEAR 2020

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Editor

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Effects of Nutrition on Immunity and COVID-19 Susceptibility

Soma Majumder

Assistant Professor, Department of Physiology

Vijaygarh Jyotish Ray College, Kolkata - 700032

Abstract

While all age groups are affected by the COVID-19 pandemic, the elderly, the undernourished people, and those with underlying medical conditions are at great risk. The high rate of consumption of saturated fats, sugars, and refined carbohydrates contribute to the prevalence of obesity and Type-2 diabetes that poses increased risk for severe COVID-19 mortality. Besides respiratory failure, other features have also been described as common in critically ill patients of COVID-19, among them infiltration of immune cells into lung injuries, high levels of inflammatory response, thrombosis, and multi-organ failure. Research findings state that nutrition influences immune strength thereby protecting our body from the attack of pathogens. Some findings have confirmed that the significance of adequate and appropriate nutrients for the proper functioning of the cells in the immune system. These nutrients improve resistance to infection by restoring immune function. Diet rich in zinc, magnesium, iron and Vitamins A, B complex, C, D and E are responsible to support immune function. Fruits and vegetables like spinach, carrots, peaches, ginger, garlic, turmeric, etc, that contain the highest micronutrients are especially recommended.

Corresponding author : majumdersoma9@gmail.com

Key words: Nutrition, Immune system, Vitamins, Micronutrients, COVID-19

Introduction

Covid-19 Virus was first identified in Wuhan, China, in December 2019, and recognized as a pandemic on March 11, 2020, by World Health Organization (WHO). COVID-19 pandemic has affected the human population around the globe. It has been



Sino-Indian Relations: Historical Perspective and Contending Contemporary Dynamics

*Critical Analysis on the Changing
Dimensions: Ancient Period to
Galwan Valley Crisis*

Edited By

Utpal Roy
Chandan Roy
Tilottama Mukherjee



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Sino-Indian Relations: An Indian Perspective

Samiparna Rakshit

Abstract:

The article would focus primarily on the Sino-Indian relations dating back from the birth of the People's Republic of China (PRC) till 2019. It will discuss vividly and critically all the issues of bilateral relationship between these two large nations of the world, India and China, decade wise. The fascinating part of this article is discussion on some less known facts of Sino-Indian relations from military perspective. As an obvious culmination the overall logical purview would definitely portray the Indian point of view.

Key Words: Bilateral relation, Border dispute, Economic competition, Global and regional governance

Sino-Indian relations or Indo-Chinese relations refers to the bilateral relationship between the People's Republic of China (PRC) and India. Although the relationship has been cordial, there are border disputes and economic competition between the two countries that have at times led to strained relations. The modern

The edited volume mainly highlights the bilateral relations and crises between India and China from the ancient period to Galwan Valley Crisis (1st April 2020). Authors mainly from different specializations have contributed their best thought, findings, and observations on this particular issue. The book will also help to understand the changing historical dimensions of the bilateral relations between the same. The book explores the historical perspective of the Sino-Indian relations and highlights the present bilateral diplomatic crisis, and also indicates the further way out from the crisis. The book as well signifies the post-Galwan bilateral crisis and its effect on the bilateral trade relation between India and China.

Editors

Dr. Utpal Roy is an Assistant Professor at the Department of History, Sahasid Kshudiram College, Alipurduar. His area of interest is 'History of Communication and Its Impact on the Society and Economy'.

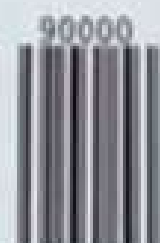
Chandan Roy is an Assistant Professor at the Department of Political Science, Malda College, Malda. His area of specialization is 'Local Self Government and Rural Development'.

Dr. Tilottama Mukherjee is an Assistant Professor, Department of Political Science, Syamaprasad College, Kolkata. Her area of interest is 'China Factor in India-Vietnam Relations'.

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DR. SUKANTA KUMAR PRADHAN
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Dr. Sukanta Kumar Pradhan
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Inclusive Educational Policies for Disabled Children in India

Dr. Samiparna Rakshit

ABSTRACT

The present paper traces all the acts, laws and provisions initiated by the Government of India and private enterprises for the disabled children in India. Moreover, all the legal and institutional facilities will be critically analysed to find out whether these policies were properly implemented in India. In order to get a holistic understanding of the educational scenario of the children with special needs, some vital terms related to inclusive education, disability and special needs have also been defined. The paper tries to find out the crux of the practical problem that the disabled children usually face in everyday life. The impediments that pose as an enormous obstacle in front of the disabled children in the ground reality in receiving formal education, has been discussed vividly. The outstanding part of the paper is that it not only brings out all the probable practical barriers that hinder successful implementation of the educational policies promulgated by the Government of India but also presents a bunch of practical solutions to these difficulties. The paper will also throw a light on how far commitment towards education for children with disabilities has been successful in the country.

Keywords: Policies of Government of India, Disability, Education for the children with special needs

According to a recent UN report, 75 per cent of children with disabilities in India do not attend any educational

¹ Assistant Professor of History, HOD Department of History, Vidyasagar Jyotish Ray College, Kolkata, West Bengal

Antimicrobial Activity of Spices †

Kashif Zohair Yusuf ¹, Sahana Ghosh ², Prasenjit Das ^{2,*}

¹ M.Sc Student, Department of Microbiology, Vijaygarh Jyotish Ray College

² Faculty, Department of Microbiology, Vijaygarh Jyotish Ray College

* Corresponding author: pdmicrobio@gmail.com;

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Abstract: Spices not only enhance the taste of our food but also increase their shelf life. During cooking and grinding, essential oils of spices are released into the medium, responsible for the taste and antimicrobial properties. The samples of our choice for the investigation were Clove and Black pepper, two of the most commonly used spices in Indian cuisine. Methanol, Ethanol, Acetone, and Aqueous extract were prepared using mortar and pestle, which were subjected to agar well diffusion against some of the known pathogens, which are *S. aureus*, *B. subtilis*, *K. pneumoniae*, *E. coli*, *A. niger*, and *P. notatum*. Methanol extract of Black pepper showed effectiveness against *S. aureus*, *B. subtilis*, and *K. pneumoniae*, whereas Ethanol and Acetone extract showed activity only against *S. aureus* and *B. subtilis*. Methanol, Ethanol, and Acetone extract of clove inhibited all the test organisms, whereas the Aqueous extract inhibited only the fungal strains. Phytochemical analysis of Black pepper extracts revealed the presence of Saponins and Glycosides as the compounds responsible for the antimicrobial property. Whereas in the case of clove, Flavonoids and Resins were detected to be responsible for the antimicrobial property. Alkaloids, Glycosides, Steroids, and Terpenoids were common in Methanol, Ethanol, and Acetone extract. Infrared spectroscopy was used to confirm the presence of these compounds. Hence, it can be concluded that these are the compounds responsible for the samples' antimicrobial properties, and they can be further investigated for the development of nutraceuticals.

Keywords: phytochemical analysis; infrared spectroscopy; Alkaloids; Glycosides; Steroids; Terpenoids; Saponins; Flavonoids; Resins.

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Conflicts of Interest

The authors declare no conflict of interest.

INTRODUCTION TO NEW MEDIA



Dr. Arnab Kumar Banerjee
Dr. Bakul Srimany

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Dr Arnab Kumar Banerjee is the Assistant Professor & Head of the department of Journalism & Mass Communication of Vijaygarh Jyotish Ray College (affiliated with the University of Calcutta). For almost two decades, he has been affiliated with a number of colleges and universities around India. He holds PhD in science communication. His research interest includes Public Relations, New Media and Digital Media Communication. He has published articles in many national and international journals. For a decade, he was the editor of a Kolkata daily's children's page (Sabuj Patra), and he has also worked as an executive editor and joint editor for a number of periodicals. He has also written in different prominent dailies and magazines which numbers more than 300. He has both written and edited different books namely 'Science Journalism & Media Communication', 'Media Teaching', 'Tagore & Communication', 'Bharotio Sangbadikotar Itihas', 'Gyapok Vevekananda', 'Photography and Ganamadyom', 'Poribesh Bipannatar Shikar Prithibir Jibkul', 'Bharat Bhagini Margarate Nobel' and others. He has been actively associated as a Freelance Radio Feature Producer, script writer and radio talker with All India radio since 1999. He was associated with Doordarshan as a Freelance Documentary Producer where he produced shows on environmental awareness, necessity of park for children, Solid waste management and so on. He was nominated for national and international film festivals for his science films, which he produced and directed. He is also actively attached with different professional bodies like 'The Asiatic Society', 'Bangio Bijnan Parishad', 'Indian Science Writers' Association' (New Delhi), 'Indian Science Congress Association', 'Indian Science News Association', 'Public Relation Society of India', 'The Science Association of Bengal', 'Pashchimbango Itihas Samsad' and so on. He is an author of books exclusively on science fiction namely 'Kolpobijnan er Golpo'. He has also received several honours for his writings, speeches, and contributions to the media.



Dr. Bakul Srimany has worked in many national and international media houses and has been engaged in the media industry for a decade. She holds PhD in digital media and science communication. Her research interests include digital media communication, science communication, web journalism, and multimedia content development and design. She has a longstanding track record of working as an editor for many well-known web portals and e-magazines. She has worked as a media educator at a range of

Indian and international institutions, colleges, and universities. She has published papers on digital media communication in various national and international journals. As a media educator and researcher, she has garnered several honours, including state, national, and international recognition for her work on an online platform with digital learning multimedia tools and its various approaches. She is currently employed as a faculty at the Department of Journalism and Mass Communication, Vijaygarh Jyotish Roy College (affiliated with the University of Calcutta).





সুনন্দিত চৌধুরী

বিজ্ঞানে স্নাতক ও কম্পিউটার বিজ্ঞানে স্নাতকোত্তর ডিপ্লোমা লাভ করে কর্মজীবন শুরু করেছিলেন উচ্চতর বিদ্যালয়ে কম্পিউটার শিক্ষক হিসাবে। সাথে ছিল ক্যামেরার নেশা। ঋত্বিক একাডেমী এবং পুনে ফিল্ম ও টেলিভিশন ইনস্টিটিউট থেকে পড়া শেষ করে সেই নেশাকেই পেশা করে তুললেন। ক্যামেরাম্যান হিসাবে যোগ দেন টালিগঞ্জ ফিল্ম স্টুডিওতে। দূরদর্শন জলপাইগুড়ি ও দূরদর্শন গ্যাংটক কেন্দ্রে সম্পাদনার কাজে বেশ কয়েক বছর কাটিয়ে নিজের শহর কলকাতায় ফিরে আসলেও মিডিয়া সায়েন্স বিভাগে অধ্যাপনার দায়িত্ব নিয়ে যোগ দেন গ্রেটার নয়ডার একটি স্নাতকোত্তর কলেজে। সেখান থেকে গুরগাঁও, দিল্লি হয়ে আবার কলকাতা।

ফটোগ্রাফিতে রয়েছে আন্তর্জাতিক স্বীকৃতি। ভালবাসেন বাংলা কবিতা আর রবীন্দ্র সংগীত, শ্রুত ও শোনাতে। রয়েছে একাধিক গবেষণাধর্মী প্রকাশনা। জাতীয়/আন্তর্জাতিক বিজ্ঞান চলচ্চিত্র উৎসবে নির্বাচিত হয়েছে বেশ কয়েকটি বিজ্ঞানভিত্তিক তথ্যচিত্র।

সাংবাদিকতা ও গণজ্ঞাপন বিষয়ে প্রথম শ্রেণীর স্নাতকোত্তর, সোশ্যাল মিডিয়ায় আন্তর্জাতিক বাজারে বিজ্ঞাপনের প্রভাবের উপর গবেষণারত অধ্যাপক চৌধুরী বর্তমানে বিজয়গড় জ্যোতিষ রায় কলেজে কর্মরত। এছাড়াও যুক্ত কলকাতা দূরদর্শনের সংবাদ বিভাগে। রাজ্য সরকার স্বীকৃত প্রেস রিপোর্টার এবং প্রসার ভারতী নিউজ সার্ভিসের রিপোর্টার হিসেবে সাংবাদিকতার সবক্ষেত্রেই রয়েছে তাঁর অবাধ বিচরণ।

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টেলিভিশন সাংবাদিকতা

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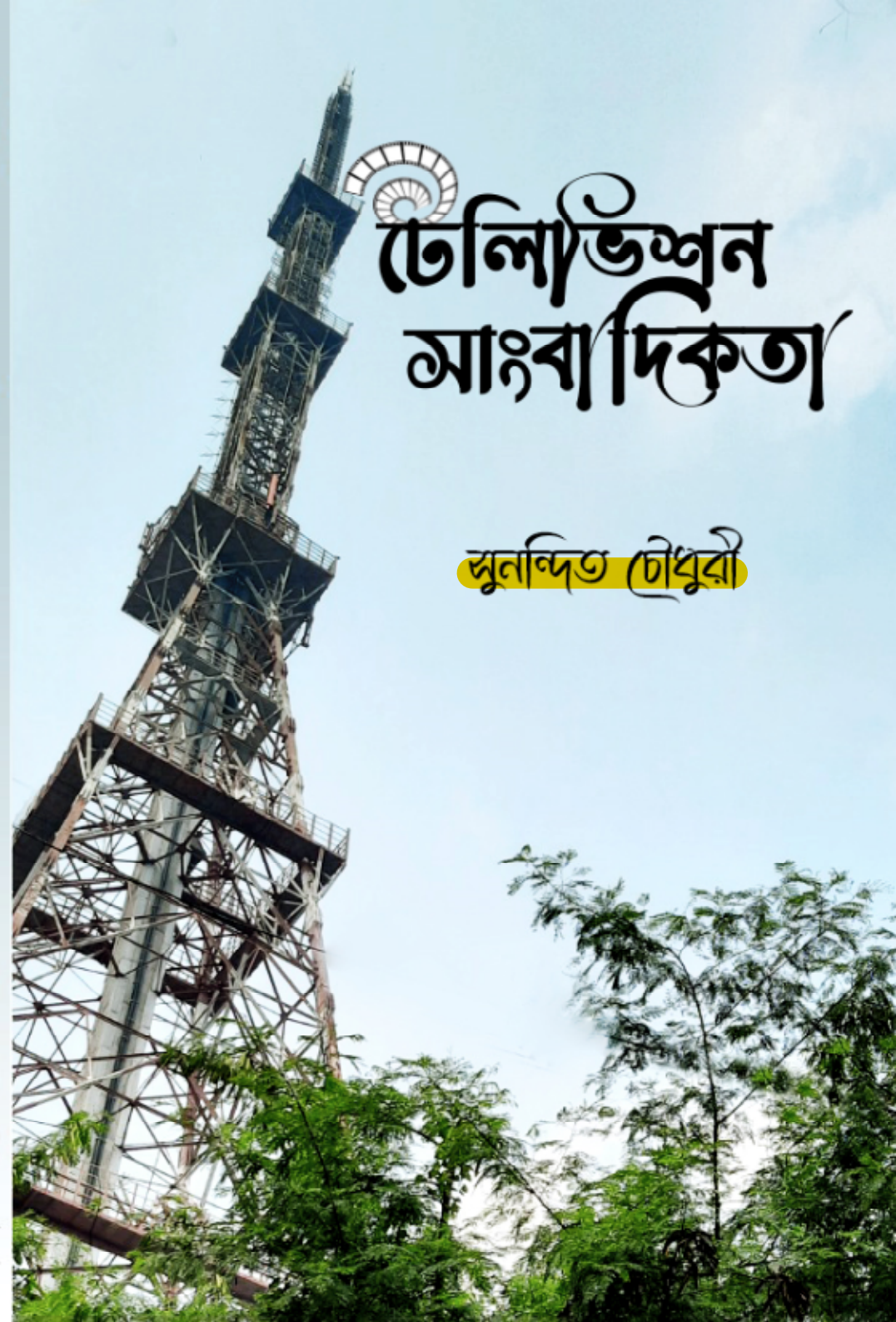
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লেখক, প্রকাশক এবং স্বত্বাধিকারীর লিখিত অনুমতি ছাড়া এই বইয়ের কোন অংশ কোনরূপ পুনরুৎপাদন বা প্রতিলিপি করা যাবে না, কোন যান্ত্রিক উপায়ের (গ্রাফিক, ইলেকট্রনিক বা অন্য কোন মাধ্যমে যেমন ফটোকপি বা পুনরুদ্ধারের সুযোগ সম্বলিত তথ্য সঞ্চয় করে রাখার কোন পদ্ধতি) মাধ্যমে প্রতিলিপি করা যাবে না বা কোন ডিস্ক মিডিয়া বা কোন তথ্য সংরক্ষণের যান্ত্রিক পদ্ধতিতে পুনরুৎপাদন করা যাবে না। এই শর্ত লঙ্ঘিত হলে উপযুক্ত আইনি ব্যবস্থা গ্রহণ করা হবে।

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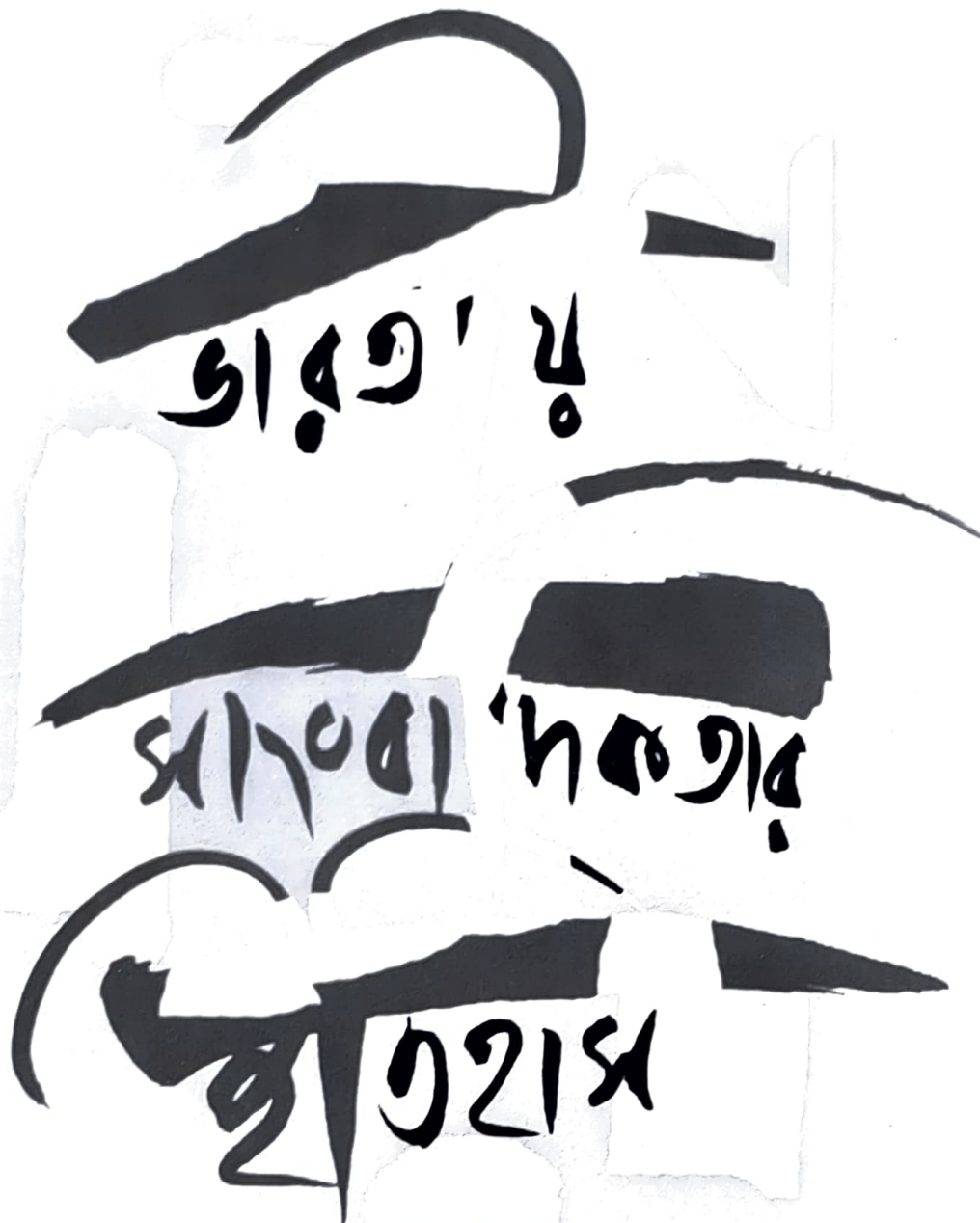
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অনলাইন সাংবাদিকতা	শঙ্কর রায়	২০৩
ভারতীয় সাংবাদিকতার ইতিহাস : নির্বাচিত গ্রন্থপঞ্জী	সুবর্ণ দাস	২০৭
দ্য টাইমস্ অফ ইন্ডিয়া	শান্তনু বন্দ্যোপাধ্যায়	২১৫
আজাদ হিন্দ রেডিও ও নেতাজি	পিয়ালী চক্রবর্তী	২২০
দ্য স্টেটসম্যান—এক ব্যতিক্রমী সংবাদপত্র	সুনন্দিত চৌধুরী	২২৫
দ্য টেলিগ্রাফ	অদिति দাস	২২৮
দিলীপ পডগাঁওকর : এক ব্যতিক্রমী সাংবাদিক	শম্ভু সেন	২৩২
লেখক পরিচিতি		২৩৬

যুক্তিবাদী সাংবাদিক রামমোহন

অর্ণব বন্দ্যোপাধ্যায়

“রামমোহন রায় পরিচ্ছন্ন চিন্তা ও জাগ্রত মনের অধিকারী ছিলেন। তিনি উপলব্ধি করেছিলেন যে, হিন্দুধর্মের সংস্কারের জন্য বক্তৃতার চেয়ে সংবাদপত্রই অধিকতর শক্তিশালী মাধ্যম”।

—রেভারেন্ড জেমস লঙ,
(রিপোর্ট অন দ্য নেটিভ প্রেস অফ বেঙ্গল, ১৮৫৯)

রামমোহন এমন এক সময়ে আবির্ভূত হয়েছিলেন যখন ভারতের ইতিহাসে মধ্যযুগের অবসান অত্যন্ত স্পষ্টভাবে সূচিত হতে চলেছে সমাজের অর্থনৈতিক গতিধারায়। সমাজের দীর্ঘকাল সঞ্চিত কুসংস্কার ও অন্ধবিশ্বাসের ওপর আঘাত হানার প্রকৃষ্ট সময়ে রামমোহনের আবির্ভাব। সমাজ ও ব্যক্তিজীবনের অন্ধকারাচ্ছন্ন অংশে আলোকপাতের বিশেষ তাগিদ এসে গিয়েছিল যার মূলে ছিল নবযুগের অর্থনীতি।^১ নতুন আর্থিক পরিস্থিতি সাগ্রহে গ্রহণ করে রামমোহনের যুক্তিবাদী ও বিজ্ঞানমনস্ক মানসিকতা। নয়া অর্থনীতির ভিত্তির ওপর যে ধরণের সামাজিক পরিস্থিতি গড়ে ওঠা দরকার, তার অস্তিত্ব রামমোহনের সমকালীন কলকাতার সমাজেও ব্যাপ্ত হয়নি। যুগ পরিস্থিতির পথনির্দেশের প্রয়োজন ছিল, প্রয়োজন ছিল সমাজ পরিবর্তনের। সমাজ বিজ্ঞানের নির্দেশ অনুযায়ী এই সমাজ পরিবর্তনের পথ দু' ধরণের হতে পারে।^২ যথা—(১) প্রণোদিত পরিবর্তন এবং (২) সংঘর্ষজনিত পরিবর্তন। প্রথম পথটি অবলম্বন করেই সমাজ পরিবর্তনের দায়িত্বভার নিয়েছিলেন সাংবাদিক রামমোহন; আর তাঁর অগ্রগামী কর্মসূচি ও চিন্তাভাবনার অনুরণন ঘটেছে বিভিন্ন পত্রপত্রিকায়।

ভারতীয় নবজাগরণের জনক হিসাবে রামমোহন রায়কে (১৭৭৪-১৮৩৩) চিহ্নিত করার মধ্যে তর্কের উপাদান যতই থাকুক, ভারতীয় হিসাবে তাঁর মধ্যে আমরা যে সর্বপ্রথম একজন আধুনিক ভাবনাসমৃদ্ধ মানুষকে পেয়েছিলাম, এ নিয়ে সম্ভবত বিতর্কের অবকাশ নেই। রামমোহনের জীবনী থেকে দেখা যায় ২৭। ২৯ বছর বয়সে অর্থাৎ ১৮০১ খ্রিষ্টাব্দে রামমোহন কলাকতায় পা ফেলেছেন। এই সময় পর্যন্ত তাঁর শিক্ষাগত চর্চা মূলত ফার্সি, আরবি ও সংস্কৃতের মধ্যে কেন্দ্রীভূত। ইতিমধ্যে ১৮০০ খ্রিস্টাব্দের ৪ মে কলকাতায় কোম্পানির উদ্যোগে প্রতিষ্ঠিত হয়েছে ফোর্ট উইলিয়াম কলেজ। লর্ড ওয়েলেসলি তখন গভর্নর জেনারেল (১৭৯৯-১৮০৫)।

জেমস অগাস্টাস হিকি ১৭৮০ সালের ২৯ জানুয়ারি ভারতের প্রথম সংবাদপত্র 'বেঙ্গ

সাংবাদিকতার ইতিহাসে অমৃতবাজার পত্রিকা

অর্ণব বন্দ্যোপাধ্যায়

‘আপনার পরিচয় আপনার দেওয়া বিষম বিপদ, এই জন্য বোধ হয় পূর্বকালে ভদ্রলোকের পরিচয় ভাটেরা দিত। সংবাদপত্র সম্পাদকের নিকট ক্ষেত্রতত্ত্বের পঞ্চম প্রতিভা। এই দায় হইতে একবার কোন প্রকারে উদ্ধার হইতে পারিলে আর অধিক চিন্তার বিষয় থাকে না। এক প্রকার করিয়া কাগজ পূর্ণ করিয়া দিতে পারিলেই হয়।’

—অমৃতবাজার পত্রিকা, ২০ ফেব্রুয়ারি, ১৮৬৮

১৮৬৮ সালের ২০ ফেব্রুয়ারি বৃহস্পতিবার সাপ্তাহিক বাংলা পত্রিকা ‘অমৃতবাজার’ এর প্রথম সংখ্যা প্রকাশিত হয়। এর বার্ষিক মূল্য ছিল পাঁচ টাকা, তিন টাকা ডাক মাশুল। এই পত্রিকা কোন বিশেষ গোষ্ঠী বা সম্প্রদায়ের পৃষ্ঠপোষকতায় তৈরি হয়নি। পত্রিকা প্রকাশের পিছনে ছিল সম্পূর্ণ পারিবারিক উদ্যোগ।

অগ্রজ বসন্ত কুমার ও শিশির কুমার দেশবাসীকে নিজেদের অবস্থা সম্পর্কে সচেতন করে তুলতে সংবাদপত্র প্রকাশের মনস্থ করেন। শিশির কুমার যশোর জেলার মাগুরা থেকে কলকাতা আসেন ও একটি কাঠের প্রেস সংগ্রহ করেন। শুধু তাই নয় অল্পদিনের মধ্যেই শিশির কুমার নিজের প্রেসের যাবতীয় কাজ শিখে নিয়েছিলেন। এরপর এই প্রেস থেকেই বসন্তকুমারের ইচ্ছা ও উদ্যোগে একটি পাক্ষিক পত্রিকা প্রকাশিত হয়। মা অমৃতাময়ীর নামে পাক্ষিক পত্রিকার নাম হয় ‘অমৃত প্রবাহিনী’। ১৮৬২ খ্রিস্টাব্দ থেকে ১৮৬৩ খ্রিস্টাব্দ পর্যন্ত যশোর থেকে ‘অমৃত প্রবাহিনী’ প্রকাশিত হয়েছিল ; সোমপ্রকাশ পত্রিকায় ‘অমৃত প্রবাহিনী’ সম্পর্কে প্রশংসা প্রকাশিত হয়েছিল। বসন্ত কুমারের অকাল মৃত্যুর পর শিশির কুমারের মধ্যে সংবাদপত্র প্রকাশের তীব্র ইচ্ছা জাগে।

চাকরির বন্ধন থেকে মুক্ত হয়ে শিশির কুমার সাংবাদিকতাকে জীবিকা ও দেশ সেবার মাধ্যম হিসেবে গ্রহণ করেন। মেজ ভাই হেমন্ত কুমারের সাহায্যে ‘যশোহর অমৃতবাজার অমৃত প্রবাহি যন্ত্র’ থেকে বাংলা সাপ্তাহিক রূপে অমৃতবাজার প্রকাশিত হতে শুরু করে। ১৮৬৮ খ্রিস্টাব্দের ২০ ফেব্রুয়ারি পত্রিকাটির প্রথম সংখ্যা প্রকাশিত হয়। যশোহর থেকে শেষ সংখ্যা প্রকাশিত হয় ১৮৭১ খ্রিস্টাব্দের ৪ অক্টোবর। এরপর পত্রিকাটি কলকাতা থেকে প্রকাশিত হতে শুরু করে।

অমৃতবাজার পত্রিকা প্রকাশের সমসাময়িককালে এদেশের শিক্ষিত সম্প্রদায়ের উল্লেখযোগ্য একটি অংশের মনে ইংরেজের সঙ্গে রাজনৈতিক ক্ষেত্রে মিলনের আকাঙ্ক্ষা প্রবল ছিল। অমৃতবাজার পত্রিকা গোড়া থেকে এই মনোভাব পরিত্যাগ করার পরামর্শ দিয়ে অন্য

দ্য স্টেটসম্যান - এক ব্যতিক্রমী সংবাদপত্র

সুনন্দিত চৌধুরী

ভারতকে ইংরেজ শাসনমুক্ত করার অভিপ্রায়ে সারা দেশ জুড়ে জনজাগরণের যে জোয়ার দেখা দিয়েছিল তার ফলস্বরূপ সংঘটিত হয়েছিল একাধিক গুরুত্বপূর্ণ মুক্তি আন্দোলন। তার মধ্যে ১৮৫৭ র বিদ্রোহের অবস্থান ভারতের এক উল্লেখযোগ্য অধ্যায়। প্রত্যক্ষ স্বাধীনতা সংগ্রাম না হলেও স্বাধীনতার আদর্শে প্রথম সংগঠিত বিদ্রোহ হিসাবে এই বিদ্রোহ যথেষ্ট স্মরণীয়। এই বিদ্রোহোত্তর সময়ে ভারতীয় সাংবাদিকতায় এক নতুন ধারার সূচনা হয়েছিল। ঊনবিংশ শতাব্দীর দ্বিতীয় পর্যায়ে ইউরোপীয় মালিকানায ভারতে প্রকাশিত পত্রিকাগুলি 'অ্যাংলো ইন্ডিয়ান প্রেস' নামে পরিচিত ছিল। ভারতীয় সংবাদপত্রের ইতিহাসে সেই সময়ে যতগুলি সংবাদপত্র ছিল, তার মধ্যে 'দ্য স্টেটসম্যান' অন্যতম।

১৮১৮ সালে শ্রীরামপুর মিশন থেকে প্রকাশিত পত্রিকা 'দ্য ফ্রেন্ড অফ ইন্ডিয়া'-র সরাসরি উত্তরসূরী হিসাবে কলকাতায় 'দ্য স্টেটসম্যান' এর প্রথম প্রকাশ ১৮৭৫ সালে। পরবর্তীকালে ১৮২১ সাল থেকে প্রকাশিত 'দ্য ইংলিশম্যান' পত্রিকার সাথে ১৯৩৪ সালে এর সংযুক্তি ঘটে। যদিও তার আগে ১৯৩১ সাল থেকেই দ্য স্টেটসম্যান-এর দিল্লির সংস্করণ প্রকাশনা শুরু হয়েছিল এবং ১৯৩৭ সালে এটি দিল্লির অন্যতম প্রধান সংবাদপত্র হিসাবে পরিণত হয়। ১৮৫৮ সালে 'বোস্বে টাইমস' এর পার্শ্ব অংশীদারদের উদ্যোগে সম্পাদক ডব্লু জর্জ বুইস্টকে সরিয়ে রবার্ট নাইটকে দায়িত্ব দেওয়া হয়। নাইট-এর সম্পাদকীয়ের বৈশিষ্ট্য ছিল যে এতে ভারসাম্যযুক্ত সুনির্দিষ্ট মতামত প্রকাশিত হত যা পাঠকদের উপর বিশেষ প্রভাব বিস্তার করেছিল। নাইট-এর ছিল তুখোড় ব্যবসায়িক বুদ্ধি। তিনি আদতে ছিলেন কাটলার পামার এন্ড কোম্পানির একজন এজেন্ট। তাঁর একক প্রচেষ্টাতে ১৮৬১ সালে বোস্বে টাইমস দ্য স্ট্যান্ডার্ড, দ্য কুরিয়র এবং টেলিগ্রাফের সংযুক্তি ঘটিয়ে তৈরি হল 'টাইমস অফ ইন্ডিয়া'। ১৮৬৪ সালে নাইট ইংলন্ডে ফিরে যান। কিন্তু ১৮৬৮ সালে আবার ফিরে এসে বের করেন 'বোস্বেই স্টেটসম্যান'। কিন্তু এই পত্রিকাটির মালিকানাও বিক্রি করে তিনি চলে আসেন কলকাতায়। এখানে থেকেই বের করেন দুটি পত্রিকা - 'ইন্ডিয়ান ইকনমিস্ট' নামে একটি মাসিক পত্রিকা ও 'এগ্রিকালচারাল গেজেট অফ ইন্ডিয়া' নামে আর একটি পত্রিকা। সেই সময় তিনি বঙ্গদেশে সরকারের



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Dr. Rajyasri Neogi

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B.F. Skinner's Radical Behaviourism

Baisali Roy Chowdhury

Another behaviourist who achieved great fame after Watson was B.F. Skinner (1904-1990). He was a most remarkable psychologist of the 20th Century. His view which came to be known as Radical behaviourism influenced various fields of psychology. Skinner always used instruments for his own experiments. One such instrument is a box, which is known as 'Skinner – box'.

Skinner was very much aware of the defects Watson's behaviourism and he tried to correct them. Accepting the main principle of Watson's view, that the

things that are not perceivable cannot be taken as the subject matter of psychology, Skinner held that behavior can only be the subject- matter of psychology as it can be perceived. He however did not understand behavior as only stimulus – response process.

Throughout his whole system, skinner's approach has been descriptive and for this reason, his behaviourism is called descriptive behaviourism. Skinner prefers inductive method because he starts with empirical data and gradually proceeds towards some sound generalization. Therefore Skinner's behaviourism is often called inductive behaviourism. Skinner's was a true behaviourism and took organism as 'empty one'. He is not at all concerned with what goes on inside the living organism.

Like Watson, Skinner did not deny introspection, self-knowledge, self-observation, etc. According to him, the things that we perceive are nothing but physical activities. But this does not mean that introspection is about physiology, and that it helps us to understand our behavior. In fact, our behavior is dependent on physical structure and so is outside the scope of introspection. It is controlled by the elements of environment and heredity. It is not possible to have any information about heredity through the process of introspection.

The Grand Epic Questions Unravalled

Bishnupriya Bhattacharya

(Dept. of History)

An epic is a protected, poetic composition focusing upon a hero who has achieved many triumphs in his life, winning all atrocities. Epics are based on established traditions which narrate the deeds of old heroic figures. They tell us about the past of a group, religion or nation. In India, the word 'epic' brings in mind the two very famous works, *Ramayana* and *Mahabharata*.

The *Mahabharat* is the longest epic written in Sanskrit language. It is a collection of more than 74,000 verses and is divided into 18 books. It was written by a sage, Vedvyasa. It throws light upon the politics prevalent in the ancient times. It teaches us why we should pursue the duties assigned to us. It tells us what wrong can happen when we speak a lie, or commit a sin. It shows us how one can betray their own family members to fulfill their selfish desires. There are many lessons to be learnt but at the same time, there are many inherent layers which may question or erode our sense of morality, but, at the end, it teaches us how to become a good human being, to prioritize our necessities and the importance of every relationship in our lives. It teaches us the true meaning of love, respects and friendship. It even fills us with patriotism. Everyone should read at least one epic in their lifetime, not only to explore their past, but also to decorate their future path. Within the Indian tradition, *Mahabharata* is often called the 5th Veda.

The bulk of Mahabharata was probably compiled between the 3rd century BCE and 3rd century CE, with the oldest preserved parts not much older than around 400 BCE. The original events related to the epic probably fall between

An Ideal Format of Comparative Study of the Educational Achievement of High School and Madrasah Students in Relation to their self-esteem and emotional intelligence

Dr. Amalendu Mazumder

[Associate Professor, Department of Education VJRC]

Mr. Mainak Saibya

[Assistant Professor, Department of Education ,VJRC]

Education is the process of developing the capacities and potentials of the individuals so as to prepare that individual to be successful in a specific society or culture. From this perspective, education is serving primarily as an individual development function. Education begins at birth and continues through out life .It is constant and on going. Schooling generally begins some where between the age four and six when children are gathered together for the purpose of specific guidance related to skills and competencies that society deems important. In the past, once the formal primary and secondary schooling was completed the process was finished. However, in to days information age, adults are quite often learning in informal setting throughout their working lives and even in to retirement.

Education, in its broadest sense, may be defined as a process designed to inculcate the knowledge, skills and attitudes necessary to enable individuals to cope effectively with there environment. Its primary purpose is to foster and promote the fullest individual self- realization for all people. Achieving this goal requires understanding of commitment to the proposition that education is a primary instrument for social and economic advancement of human welfare (verma-1990).

Tim Winton's *Dirt Music* (2001): A New Reading In Bush Life And Relationships

Dr. Swati Roy Chowdhury

[Assistant Professor in English Vijaygarh Jyotish Ray
College, Bijoygarh, Kolkata West Bengal]

The Bush in Australia does not only mean a barren outback, but it is also emblematic of a unique way of life that the settler-Australians preferred as their ideal. The Bushmen were virile and robust law breakers who were mostly convicts transported to Australia. During the formative years of nation building their robust masculinist prowess became a model for entire white Australia for multiple reasons.

The importance of Bushmen in Australian societies have earned them place of pride in Australian literature. The celebrated Bush ballads are examples of how Bushmen and their lives have influenced Australian masses at large. Even after the passage of centuries Bush ideology continues to percolate the Australian peoples' idea of socio-cultural identity.

The present article seeks to make a probe into the ways in which the Bush still finds its way into a comparatively modern text. The text under scrutiny is Tim Winton's *Dirt Music* published in 2001. And the paper will try to analyze how it can be read as a Bush text specially with reference to the kind of relationships portrayed in it.

'Relationship' can be defined as 'the way in which two people... behave towards each other or deal with each other'. (*The Oxford Advanced Learners' Dictionary* :2003) From this it is evident that it is something mutual and two-way where reciprocation is the key-word. If one fails to reciprocate, relationship is bound to break. In this light

Avian Migration: Relation to Their Endogenous Circadian and Circannual Rhythm.

Aditi Ghosh, Ipsita Maity, Pinakiranjan Chakrabarti

[Department of Zoology, Vijaygarh Jyotish Ray College, Biojoygarh, Kolkata]

Abstract: Endogenous circadian and circannual clocks are best studied in migratory bird species as these phenomena are responsible for the initiation of periodical migration particularly during autumn and spring. The timing of migration is very important in birds specifically those who spent their winter close to the equator where the environment is fairly constant. In nocturnally migrating birds, alteration in the circadian signals leads to the development of its nocturnal activity. Here melatonin plays an important role as its secretion pattern often affects the general circadian system so that the migratory birds adjust faster to the new condition after a long flight.

Keywords: circadian rhythm, circannual rhythm, migration, birds.

Introduction

Biological rhythms and the endogenous clocks are fundamental properties of nearly all living organisms, ranging from cyanobacteria to humans. These biological rhythms are functionally tied to environmental cycles. The daily 24-hour cycle of day and night imposes a rhythmic cascade of positive and negative selective pressures on nearly all organisms on earth. Migrations of birds are conspicuously rhythmic phenomena. Migration occur at certain seasons and certain times of day and thus are manifestations of an approximately annual (circannual) as well as an approximately diurnal (circadian) rhythmicity. Both of these rhythms reflect basic adaptations to environmental cycles and serve as biological clocks to cope with the annual and daily fluctuations in external conditions. Circannual and

Anthracyclines as anticancer drugs and exploration of its promising substitute

Dr. Sayantani Chatterjee

[Assistant Professor in Chemistry, Vijaygarh Jyotish Ray
College, West Bengal, India]

In this genre of unhealthy lifestyle, the most sought-after thing is a good health. We often forget that God has given us most beautiful and priceless gift called Life. For survival, we have to go through Stress. In fact, a moderate stress is also required to perform but if that turns into negative one i.e. distress then that is very much detrimental for our mind and body. For the excessive pollution, unhealthy lifestyle and other pertaining problems, the general health of us is degrading day by day [1-4].

We are blessed by the innovative inventions by Science but at the same time we cannot make a denial that we misuse the blessings of Science and in long run, we become victims. In fact, the level of torture that we do on Nature is really shameful and Nature is also having her tolerance level and many times Nature also bounces back. A direct consequence of this fact is that many of the blessings of science is today a matter of serious concern in most modern societies. Most of the pollution we see around us is an outcome of an excessive use or abuse of science that nature has tolerated all these years [5, 6]. However, with a rise in various forms of pollution, a direct consequence of the human approach to go ahead with over ambitious projects and intentions, nature is today on the path of taking revenge [3-6]. Therefore, with changing times, the character of the diseases affecting our societies has also changed. Today, we are more affected not by diseases caused by microbes, for we are reasonably knowledgeable on how to deal with them but more by those that are an outcome of stress and strain or caused by agents of pollution [6-9].

Novel Corona Virus versus Human Immunity

Munmun Chatterjee

[Department of Zoology, Vijaygarh Jyotish Ray College,
Vijaygarh, Jadavpur, Kolkata-, West Bengal, India]

Abstract

Coronaviruses (CoVs) are by far the largest group of known positive sense RNA virus having an extensive range of natural host. It is becoming a pandemic in recent times, so human immune response is very much essential to control and eliminate Corona virus infection. However, maladjusted immune response may result to different immune-modulations. Gaining a deeper understanding of interaction between Corona virus and human immune system may shed on the light of the development and persistence of Severe Acute Respiratory Syndrome (SARS). It is very important and also very interesting to elucidate the mechanism of the virus infection and the function of immune system. WHO and many other experts are also engaged to notice the different mutations of the virus, so that different countries are intimated and their public health should be given more importance according to that. There is no proper treatment against these viruses but to focus on the combat mechanism of our immune system against these dreadful viruses. It is a blessing to us that we have got different types of vaccines which can minimize the effect of this particular enemy.

Keywords :- Coronavirus, SARS, Immune system, Vaccines.

Introduction

In December 2019, hospitals in Wuhan, China began to report a special type of viral disease which is geographically linked to a particular market where slaughtered animals were sold. The causative virus rapidly spreads over 200 countries and resulting in a pandemic situation. More research reveals that the virus affect lower respiratory tract so named as Severe Acute Respiratory Syndrome Corona

Utilization of Silicon Solubilizing Bacteria: A brief review

Sudipto Paul¹, Gourab Shome², Subhankar Barua³
and Shilajit Barua⁴

[¹Students of 3rd Semester M.Sc., Department of Microbiology]

[²Research Scholar, Department of Microbiology]

[³Assistant Professor, Department of Microbiology, Asansol Girls College. Dr. Anjali Roy Sarani, Bardhaman, Asansol, West Bengal 713304]

[⁴*Assistant Professor, Department of Microbiology, Vijaygarh Jyotish Ray College.]

[8/2, Bijoygarh. Jadavpur. Kolkata 700032]

Abstract

Silicon solubilizing bacteria (SSB) are very useful biological agent nowadays. Using their various properties we can use these bacteria in different ways. We can use them in industries especially in ceramic industries. These slime producing bacteria can entrap silicon from the soil environment within their EPS layer. Using this silicon entrapped slime we can increase the tensile strength of the fly ash based ceramic products. We can also use silicate bacteria in the separation of quartz. After pretreating quartz with the silicate bacteria three days, using dodecylamine as collector, the maximum recovery ratio of the quartz was 92.74%. We can use them as bio-fertilizer to increase the productivity and fertility of the soil as plants need different nutrients in different ratio. It plays an important role in sustainable agriculture as they make silicon available for the plants and silicon is a key nutrient for plant growth and it also helps to increase the tolerance against biotic and abiotic stresses. Silicate bacteria can release soluble silica from insoluble silicates and simultaneously they release additional minerals like potassium, zinc, phosphorus. Silicate bacteria can also be used to treat solid waste like

Flood Induced Migration and its Socio-economic Impacts: A Case Study in Rural West Bengal

Dr. Isita Mukherjee¹, Dr. Abhijit Das²,

Dr. Palashpriya Halder³

Abstract

West Bengal is counting as most flood prone state and Murshidabad district is one of the most common places of flood. Kandi block of Murshidabad district is count as heavy flood prone area. The massive river floods in the year 2000 caused unprecedented loss to lives, livelihoods, infrastructure and property in Kandi. Although floods are common issue in this area but the year 2000 floods were not usual. The flood burst in the year 2000 as such that had been not experienced such flooding for half a century. Survey was conducted to document the experiences of affected household; explore the extent of damage at village and household levels; access to food, water and sanitation, health and education, and livelihoods; identify social changes, migration of people to different social and occupational groups. A total of 40 broadly representative villages were surveyed, as well as 1424 sample households, of which 476 respondents were women. Focus Group Discussions (FGDs) were held with people belonging to various social groups in 20 out of 40 villages, for our selection of study area and also for making scientific questionnaire. The study found that affected households have to shift another place as people are homeless due to flood. They lose their agricultural field, crops which induce their poverty levels. To combat they need alternate earnings and they chose migration for their livelihood. The most common place to migration is Saudi Arabia and the migration to Arabian country was first initiated in Muslim community. After 6-8 month later the huge change was found among them that also encourage other religion community for migration.

Our study found huge economic development. People build pucca houses, making their own boating

Curcumin As An Anti-Cancer Agent

Ranita Bhattacharya*, Munmun Chatterjee,

Aditi Ghosh Dutta

[Department of Zoology, Vijaygarh Jyotish Ray College,
Bejoygarh, Jadavpur, Kolkata, India]

Abstract:

Curcumin, a phytochemical has many properties including the capacity to modulate and regulate cell cycle and signal transduction pathways. With the increasing knowledge on the cell cycle deregulation as a primary cause of cancer, any substance having the capacity to interfere with the cell signal pathways is gaining huge importance as a potent anti cancer agent. The role of cell cycle proteins and tumor suppressors (p53) has now become an inseparable part of cancer treatment. In the light of recent studies Curcumin has gained widespread attention in this aspect. As this phytochemical is capable of modulating such cell cycle and programmed cell death regulating molecules it has many high possibilities to become a chemotherapeutic drug. It is otherwise non-toxic, safer and is of complete biological origin. It also acts as an anti-oxidant. In this review an attempt to investigate the inhibitory effects of curcumin on cancer cells have been made.

Keywords: Cancer; Anti-proliferative effect; cell cycle; apoptosis; curcumin; tumor supressor; protein tyrosine kinase; protein kinase C; c-myc; p53; bcl-2

Introduction

Cancer is nothing but abnormal and uncontrolled cell proliferation. Cancer cells divide in an uncontrolled fashion and spreads rapidly, interfering with normal organ and/or tissue functions resulting in fatal consequences. This mainly occurs due to loss of normal growth control and cell cycle regulation in cancer cells. Such a loss of cell cycle control is often induced by various carcinogenic factors (such as-X-ray, UV radiation, viruses etc) belonging to both

REFLECTION

Influence of Gut Microbiota on Obesity

Sreosi Chakraborty, Anushree Hait, Adrija Bannerjee,
Gourab Shome and **Shilajit Barua***

[Department of Microbiology,
Vijaygarh Jyotish Ray College]

Abstract:

Obesity is a common disorder nowadays with multifactorial causation and clinical significance. In addition to common cause of its rising prevalence like, urbanization of the world's population, increased availability of food supplies, and reduction of physical activity, recent studies has shown that gut microbial population plays an important role in obesity. The relationship has been found to be co-dependent, i.e, obesity alters gut microbial population and gut microbial population influences obesity. Human gut has been reported to be inhabited by diverse microbial population that maintains a symbiotic relationship with the body. Some helps to produce some growth factors and some contributes to the energy harvestation in the body. Many studies have indicated the association of gut microbes with obesity. Inoculation of gut microbiota in germ free lean mice showed a significant increase in body mass and insulin resistance. Changes in gut microbiota have been reported during absorption, storage and metabolism of dietary lipids, which might have contributed to obesity. Studies proved that obese mice can harvest more energy and intake more calorie than lean individual. Bacteroidetes and Firmicutes are the main two abundant microbial phyla in the gut that has been reported to regulate obesity. Many experiments revealed that a significant increase in Firmicutes and decrease in Bacteroidetes population occurs in obese individuals in contrast with the lean individuals. However, difference in human and mice gut microbial population leaves scope for further studies and research of gut micro biota and its influence on obesity in human.

Key words: Obesity, Gut Microflora

Miraculous Medicinal Plants and Their Medicinal Benefits

Urmi Roy¹

Soma Majumder²

[¹Department of Botany, Vijaygarh Jyotish Ray College]

[²Department of Physiology,
Vijaygarh Jyotish Ray College]

Some plants having properties like conventional drugs are called "Medicinal Plants". Medicinal plants are defined as a group of plants that poses some special chemical compounds, known as Phytochemicals, that qualify them as a source of varieties of drugs and therapeutic agents. They were used to treat ailments in humans or animals and some were also used as food and they had pain relieving effects. In Rig Vedas of Hindus, these were mentioned called as "Ayurvedic Medicine". In the 19th century, chemists started to extract the active compounds of medicinal plants. Plants contain special chemicals that have a medicinal effect on the body and these are called the active constituents. These chemicals have marked physiological and medical activity upon the body. The main groups of these chemicals are Alkaloids, Anthocyanins, Cardiac Glycosides, Cyanogenic Glycosides, Coumarins, Flavonoids, Phenols, Saponins, and Tannins etc.

Types of Phytochemicals and their brief description:

oAlkaloids: These are largest group of secondary chemical constituents. These are basically of nitrogen bases synthesized from amino acid. Alkaloids are basic, nitrogen-containing organic constituents. First ever alkaloid, morphine, isolated from opium poppy.

oGlycosides: These are colorless, crystalline carbon, hydrogen and oxygen-containing water-soluble phytochemicals, condensed products of sugar.

oFlavonoids: These are important group of polyphenols. They play a big role in coloring the plants, especially yellow and other pigments. They play an important anti-inflammatory, anti-allergic and anti-cancer activities



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Dr. Rajyasri Neogy

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Chronic Infectious Diseases : Changing The Map of The Immune System

Arpita Kabasi¹, Sreejani Basu¹, Dr.Gargi Saha Kesh²

[Students of 3rd Semester B.Sc.,
Department of Microbiology]

[Associate Professor, Department of Microbiology,
Vijaygarh Jyotish Ray College.]

Abstract : Immunodeficiency disorder weakens a body's immune system's ability to defend it against abnormal or foreign cells that attack it. It is a condition caused by one or more immune system defects. An immunodeficiency disorder can be considered in any person with infections that are abnormally frequent, severe and resistant with unexpected complications. Immunodeficiencies are either primary or secondary. This article introduces these two types along with relevant examples of diseases related to the type. The primary immunodeficiencies are observed when a particular component of the immune system is deficient: B cells, T cells, phagocytic cells or the complement cascade. Secondary immunodeficiency is an impairment of the immune system resulting from an infection, medications or malignancy in a previously normal person. These are observed to be more common than primary immunodeficiencies. Almost all prolonged serious illnesses interfere with the immune system to a certain level. Elaborating the topic further, major infectious diseases that often lead to immunodeficiency disorders based on their severity

Will The Next Generation Be Covid Immune Through Vertical Transmission Of Maternal Immuno globulins?

Santanu Sardar¹, Souvik Sasmal,
Palash Paul¹ and **Shilajit Barua**

[Students of 3rd Semester M.Sc.,
Department of Microbiology]

[Assistant Professor of Department of Microbiology

Vijaygarh Jyotish Ray College.]

Abstract: Pregnant women infected with SARS CoV 2 are at higher risk than non-pregnant women. Despite of this they are still left out of therapeutic trials. But several trials are going on for a better solution. Based on some of those studies we aim to provide substantial evidence on how efficiently anti- SARS COV2 antibodies can be transferred to the neonate. We mainly focused on three modes of antibody transfer to confer immunity to the fetus or neonate. Analyzing some case studies from Israel, USA and other countries at different stages of pregnancy we have got the evidence of transferring maternal IgG (anti- SARS CoV 2) through the placenta, vaccination or breastfeeding. Finally we have got positive outcomes from most of the studies.

KeyWords: SARS CoV2, maternal antibody, immunity, pregnant women, neonate, IgG, IgA

1. Introduction:

Covid 19 disease was first report in the Wuhan city of China. After that it was declared a pandemic by

The Human Microbiome: Its Role And Impact On The Immune System

Keka Bhattacharjee¹, Richa Lata¹, Biman Das¹,
Animesh Halder¹, Abhik Guha¹,

Sahana Ghosh², Prasenjit Das*

[¹Students of 3rd Semester M.Sc.,
Department of Microbiology]

[²Faculty of Department of Microbiology, Assistant
Professor of Department of Microbiology
Vijaygarh Jyotish Ray College]

Abstract: The human microbiome consists of a several variety of microbes that outnumber our own body cells. They play a major role in shaping our immune system. The more diversity in beneficial microbes, the better our health. However, imbalance between them would compromise our immunity. We are exposed to these microbes right before delivery through the birth canal. In this article we will explore how the abundance or loss of microbes from the body, affects our immunity. We showcased the microbes present in and on different parts of our body and their interactions with the environment. We have also analyzed different studies about microbes that confer immunity or cause disease to the host by different physiological and biochemical mechanisms. Several factors may alter microbial environment within the human system causing disease. However, we also formulated strategies that restores the microbial balance in our body, which might be very effective while treating patients with microbial diseases.

Nutrition And Immunity

Puspita Mondal^{1*} and Surajit Bag^{2*}

[¹Students of 5th Semester B.Sc., Department of Microbiology]

[²Faculty of Department of Microbiology,
Vijaygarh Jyotish Ray College]

Abstract: The immune system defends the host from pathogenic microorganisms like bacteria, viruses, fungi, and parasites. The system has evolved to include a wide variety of specialized cells, communicating molecules, and realistic responses. The system often works, carrying out observation, so far its function increases when a person becomes infected. This extra work is among the exaggerated levels of metabolism, requiring energy sources, compound substrates, and controlling molecules, all are derived from food. A variety of vitamins (A, B6, B12, C, D, and E) and trace elements (zinc, selenium, copper & iron) are undeniable to play important roles in assisting the human immune system and decreasing the threat of disease. The various necessary nutrients, as well as the various vitamins and trace elements, amino acids, and fatty acids, are essential. It would seem prudent for people to consume the remaining amount of essential nutrients to support their system to sometime that while they help them while they take care of the germs that need to be infected. The gut microbiota plays the role of teaching and controlling the system. Dietary supplements for a healthy microbiota can benefit the system.

Keywords: Nutrition, Immunity, Vitamin, Microbiota.

Importance Of Probiotics In Treatment Of Colorectal Cancer

[Dipanwita Poria¹, Sancharee Sensarma¹ and Pinaki Hazra^{2*}]

[¹Students of 3rd Semester M.Sc., Department of Microbiology]

[²Faculty of Department of Microbiology, Vijaygarh Jyotish Ray College]

Abstract: Probiotics are microbial feed supplements that have favorable effects on consumers. Generally, probiotics belong to the lactic acid-producing bacteria group and are consumed like yogurt, fermented milk, or other fermented foods. Role of lactic acid-producing bacteria consumption are: (i) Reduces risk of cancers; (ii) reduces the chance of lactose intolerance, decreases the risk of the prevalence of allergy in sensitive individuals; (iii) enhances body immunity, synthesizes and increases the bioavailability of nutrients; and (iv) improves the digestive system.

From neoplasias, colorectal cancer is a common reason for cancer death in populations. The reason for this cancer is due to the people's modern lifestyle, by the increasing of the change in eating habits, primarily ulcerative colitis, the chronic inflammatory bowel diseases, and Crohn's disease. Colorectal cancer is one of the most severe cancers in the world.

Probiotics prevent the risk of cancer and provide support during therapy. Probiotics are used to prevent and treat many bowel diseases like diarrhea, gluten intolerance, gastroenteritis, *Helicobacter pylori*

Healthy Lifestyle: The Key To Boost Immunity Against Infectious Diseases

Barbie Chaudhury^{1*} and Saswati Gayen^{2*}

^{1*}Students of 5th Semester M.Sc., Department of
Microbiology

^{2*}Assistant Professor of Department of Microbiology

Vijaygarh Jyotish Ray College.

8/2, Bijoygarh. Jadavpur. Kolkata 700032

*Corresponding

Abstract: Malnutrition and infections have always gone hand in hand. Malnutrition is the primary cause of immunodeficiency across the globe, and we are learning more and more about the pathogenesis of this interaction. Five infectious diseases account for more than one-half of all deaths in children aged less than 5 years, most of whom are undernourished. Micronutrient deficiencies have repercussion such as poor growth, impaired comprehension, escalated mortality rate and susceptibility to infection. Nutritional lack associated with pregnancy are associated with poor immune response to infection. Immune deficiency is partly compensated by breast-feeding, so it is the single best way to protect infants from infection. In this review article we have tried to explore the relation between undernutrition or overnutrition with immunodeficiency disorders along with the role of human microbiome immune status of the host. There is a general belief that following any natural disaster the rate of transmission of infectious diseases increases but in this

Post Covid Infection And Long Term Challenges To The Immunity

Santanu Sardar^{1*}, Pragyeta Ghosh^{1*}, Sampa Debnath²

¹Students of 3rd Semester M.Sc.,
Department of Microbiology

[²Associate Professor of Department of Microbiology
Vijaygarh Jyotish Ray College.]

[8/2, Bijoygarh. Jadavpur. Kolkata 700032]

Abstract :With the progression of COVID-19 pandemic situation, several reports depict that the immuno deficiency and autoimmune disorders have been obtained in post COVID patient. Several emerging report reveals that post covid immunodeficiency disorders can be life threatening for any age group patient. The post covid infection can affect our internal organs like lungs, kidneys,liver and even lead to harmful fungal or mold infections like mucormycosis. In some cases the macrophages failed to recognize the self cells. This loss of self tolerance mainly leads to such diseases. We aimed to study such cases on how SARS COV-2 infection weakens the immune system and causes secondary infection. Data suggested that there is remarkable decrement in lymphocyte count, neutrophil to lymphocyte ratio,CD4 ,CD8 cells after the COVID-19 infection. As a result post covid can trigger life threatening immunodeficiency disorders.

Keywords: COVID-19, Mucormycosis, White fungus, Multi organ dysfunction

Influence of The Human Microbiota Upon Immunologic Response and The Immune System

Ankita Roy^{1*} and Sudip Samadder²

[¹Students of 3rd Semester M.Sc., Department Of Microbiology]

[²Faculty Member, Department Of Microbiology]

[Vijaygarh Jyotish Ray College. 8/2, Bijoygarh Jadavpur. Kolkata]

Abstract :The human body harbours a diverse and dynamic array of microbial community, known as microbiota, that affect and influence different processes in the host. This intricate relationship, microbiome, needs more attention and in-depth understanding. With the advent of metagenomic analyses it became easier to explore the human microbiome. The Human Microbiome project aimed at unravelling and understanding the influence these microflorae have on the human system. Studies conducted has thrown light on their metabolic potential and the impact these metabolites have on health and immunity. Further their effectiveness in numerous disease treatments makes it an area of utmost importance. This review specifically focused on the role of human normal flora in the metabolism of various compounds and the direct and indirect immunologic consequences of those metabolites and also the role of normal flora in development of the immune system in human.



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Some Roadside Trees of Saltlake City

Manjira Das, Bulbul Banerjee Biswas,

Mahua Bhattacharya, Nanda Khan

[Department of Botany,

Vijaygarh Jyotish Ray College]

Abstract: Salt Lake or Bidhan Nagar is a lively residential area with lots of greenery. Large part of Salt Lake is covered by parks, playgrounds and roadside vegetation. Once it was a swampy low land area, used to be the bed of river Bidyadhari. A part of Salt lake flora represent cultivated and avenue trees. Many of them are of medicinal and economic value and some are rare species. Trees are natural heritage and help in maintaining ecological balance. Apart from the work of Biswas, 1927, DasGupta, 1973, Battacharya et.al, 1996, Mitra et.al. 2009; Saha et.al.2018, not much work has been done on Salt lake flora so, the present study is carried out to give an idea about the roadside trees of Salt Lake City.

Keywords: Salt Lake City, Roadside Trees, Economic and Medicinal values.

Introduction

Salt Lake City is the eastern garden suburb of Kolkata. The city lies between 88°25' and 88°42' East Longitude and 22°35' and 22°58' North Latitude at the northeast of Kolkata within the limits of district North 24 Parganas occupying an area of 17,000 acres

Kautilya's Diplomacy

Amrali Bose (SACT)

[Department of political science

Vijaygarh Jyotish Roy College]

Barsha Lahiri (SACT)

[Department of Political Science

Vijaygarh Jyotish Roy College]

Diplomacy plays an important role in politics. The success or failure of a nation depends upon its diplomacy. From the beginning every state tried to establish relation with other through diplomacy – not through military or physical strength. A detailed concept on diplomacy has been found on the writings of Kautilya. A proper structure of diplomacy can be viewed on Kautilya's Arthashastra.

There are different explanations of diplomacy. Some intellectuals took diplomacy as a feature of no importance in the field of international relation. While some others define diplomacy as an unfair means of international relation. But as per Oxford Dictionary, diplomacy is the process of looking after international relationship through proper discussion.

Kautilya defines diplomacy as, "A King who understands the true implication of diplomacy conquers the whole world."

Mandala theory:

To understand the concept of diplomacy it is important to understand the Mandala concept.

Women Education In Pre-independence India: A Socio-historical Journey (Vedic Period – Colonial Period)

Anindita Sarker (SACT)

[Vijaygarh Jyotish Ray College]

Dr. Ruma Ray

[Assistant Professor

Vijaygarh Jyotish Ray College]

Md Jamirul Islam

[Assistant Professor

Vijaygarh Jyotish Ray College]

Abstract: The preamble of Indian Constitution has enumerated “Right to Education” as a fundamental right, irrespective of caste, creed, race and sex.. Education is considered as the most important agency for social change, social transformation and entire development of the country. To achieve and sustain development rate of our country, it is an urgent need that education should be accessible to every segments of the society. Alongside their male counterpart women are essential part of our society. However, women are more susceptible to social tribulation due to lack of education. The enhancement of education among women would undermine these social tribulations thereby transforming old pattern of society into modern society. Hence, the role of education in women emancipation has been a significant agenda in our Indian society. The paper will attempt to delve with

Creating an Inclusive Environment for the Transgender Students at School Level: Challenges and Formation of Strategies in West Bengal

Sk. Rafique Ahmed

[Associate Professor, Department of Education,
Vijaygarh Jyotish Ray College, Kolkata]

Abstract: The transgender community is one of the vulnerable and marginalized communities in India and seriously lagging behind on human development indices including education. Victimization caused by ignorance of the parents, teachers, school staffs and peers is causing serious negative impact on the mental health of transgender students. This results in a high drop-out rate at the school level. The same scenario has been observed in West Bengal. This paper aims at creating inclusive classrooms for transgender students in West Bengal. It also tries to highlight the challenges and formation of strategies to build school as a safe and welcoming place for them.

Keywords: transgender, community, inclusive, classroom.

Introduction:

The term “Transgender” signifies different meanings to different people. It is an umbrella term referring to people who do not conform to culturally

Effect of Covid on Hospitals, Employment and the Life of Students

Gargi Bhattacharya

[Department of Education, Vijaygarh
Jyotish Ray College, Kolkata]

Introduction

The coronavirus has had adverse negative effects on many fields. Here we shall talk about the various impacts of the virus on the nations' hospitals, **Employment Scenes And On Students.**

Objectives :

Our main objective is to try and show the different effects that covid has had on the 3 fields : on the country's employment , on the hospitals and on the life of students. We try to bring about the different scenarios before and after covid and the differences in the three setups in these scenarios.

Analysis :

Effects on Hospitals: The COVID-19 pandemic has impacted all hospitals around the world. Many hospitals have scaled back or postponed non-emergency care. This has medical consequences for the people served by the hospitals, and it has financial consequences for the hospitals.

Chemicals in the Environment

Dr. Anindita Mukherjee

[Department of Chemistry,

Vijaygarh Jyotish Ray College]

Chemicals, in one form or other, are present in the environment. Basic abiotic components of the environment like water, air and soil attained a state of equilibrium in respect of chemical ingredients and behaviours, through evolutionary processes of thousands of years and became congenial for evolution and sustenance of life on earth. These are getting badly polluted through deforestation, urbanisation, industrialisation, desertification, indiscriminate disposal of wastes etc. In fact pollution is the consequence of depletion of essential chemicals or accumulation of toxic chemicals in the environment.

Air, besides its normal components like nitrogen, oxygen, carbon dioxide, water vapour etc. is said to contain about three thousand undesirable chemicals released from automobile exhaust, industries, domestic smoke etc which are responsible for causing blurred vision, headache, unconsciousness, irritation of eye and throat, breathing trouble and even death. Chemicals like oxide of nitrogen, sulphur cause acid rain which pollutes air, water as well as soil. Increase of carbon dioxide concentration in air is regarded as the major factor for causing global warming.

Water is getting polluted by domestic wastes, municipal sewage, industrial effluents, chemical fertilisers, insecticides, herbicides etc. Reported presence of arsenic in water in different localities is of great

Fungal Nutraceuticals: Nutritional and Pharmaceutical Alternatives for the Future Generations

Sudip Samadder

Prasenjit Das

[Department of Microbiology, Vijaygarh Jyotish
Ray College, Kolkata]

The portmanteau word “Nutraceutical” was derived from the terms “nutrition” and “pharmaceutical”. The founder and chairperson of the Foundation for Innovation in Medicine, Dr. Stephen L DeFelice, introduced the term in 1979. Nutraceuticals are food or parts of a food that have medicinal values and prevent diseases by treating them also. Among the different sources of Nutraceuticals, the fungal nutraceuticals are the most important ones. Among the kingdom Fungi, Ascomycota and Basidiomycota are the two fungal phyla that produce large, visible fruiting bodies, which are widely used as part of traditional diet and medicine in different parts of Asia. The bioactive polymers, mainly β -glucans or heteropolysaccharides, are the part of the fungal cell wall or intracellular inclusions. The absence of toxicity in these biopolymers make them potential sources for the safe formulation of novel nutrients and nutraceuticals. These fungal polysaccharides have been

Science Communication Through Bengali Language: A Historical Study

Dr Arnab Kumar Banerjee

[Assistant Professor & Head, Dept. of Journalism & Mass Communication, Vijaygarh Jyotish Ray College]

Today we are living at the age of News and Information. Main function of Print Media (As well as Mass Media) is to collect, distribute and analyze the news or information. Newspaper being an important part of Mass Media, has its huge responsibilities. Main function of News paper is to introduce public with various types of unknown and recent subjects. Again, we also take help of Newspaper to create awareness regarding some particular important subject like spread of new type of fever or how to deal with HIV/AIDS. To consider history of News paper for a few hundreds of years, we can see that there are so many changes, that have entered slowly. But some great changes, that have come to the News paper rounding the new technology and socio- economic status, are very definite and clear. Bengali News paper also not an exception.

In Bengali, News paper was first introduced through 'Bangal Gazette' in May 1818. Gangakishor Bhattacharya and Harachandra Roy were the joint



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SAMIPARNA RAKSHIT

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