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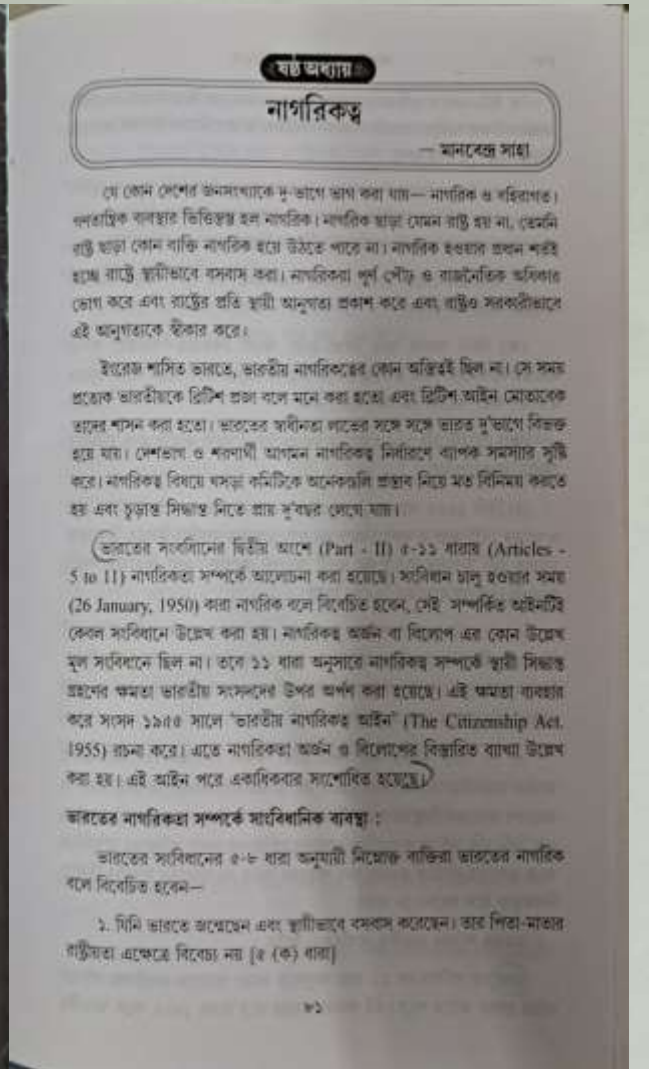
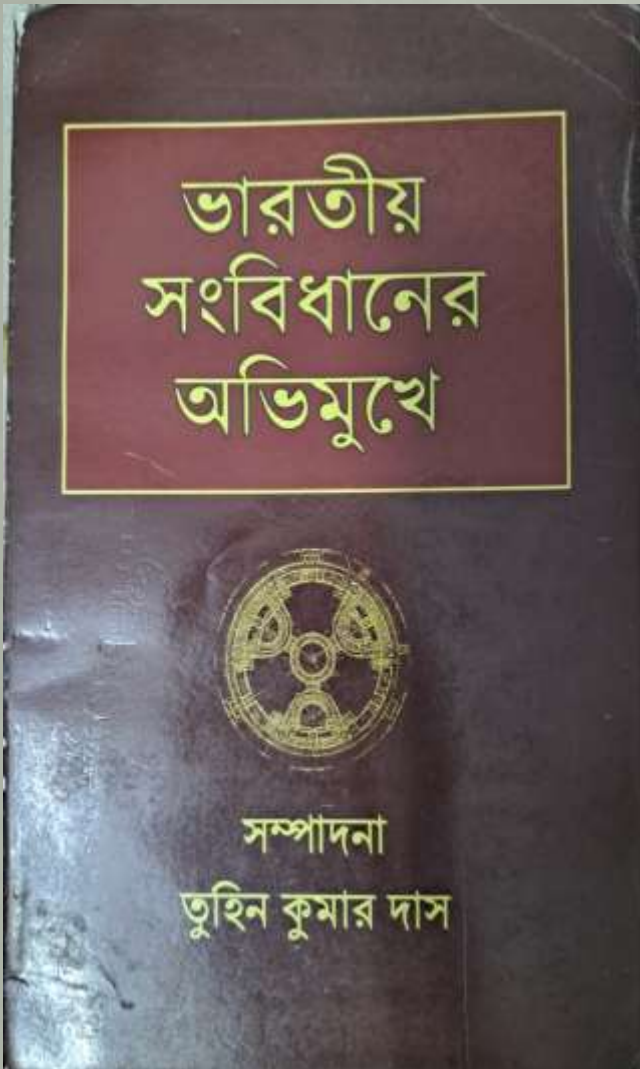
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Date 20

Year: 2019

Name of the teacher: Sri. Manabendra Saha

Title of book/chapter/paper: ভারতীয় সংবিধানের
অভিमुखে(নাগরিকত্ব)



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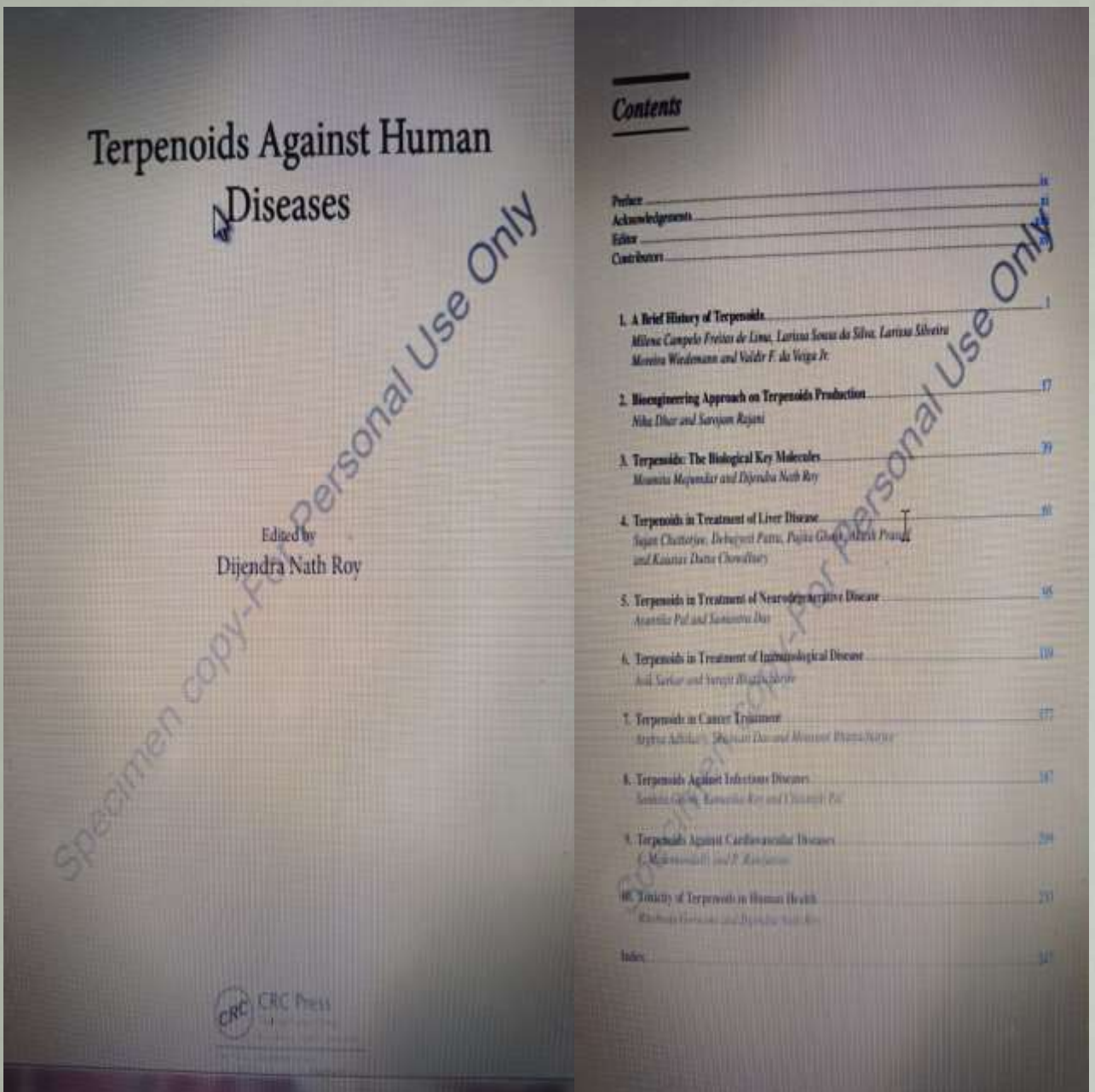
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Date 20

Year: 2019

Name of the teacher: Dr. Kaustav Dutta Chowdhury

Title of book/chapter/paper: Terpenoids in Treatment of Liver Disease



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Ref.

Date 20

Year: 2020

Name of the teacher: Dr. Samarendra Nath Banerjee
Title of book/chapter/paper: Alterations of karyotype in Evolution and Cancer – the new Avenue in Chromosome

National Seminar
DIVERSITY IN THE ERA OF GLOBALIZATION
Challenges and Management
February 22-23, 2020
Sponsored by
Department of Higher Education,
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Departments of Anthropology,
Botany, Microbiology and
Zoology

Discipline :			
Presentation			
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Oral Presentation
Alterations of Karyotype in Evolution and Cancer – The New Avenue in Chromosome Research

Samarendra Nath Banerjee
Department of Zoology, Rammohan College, 102/1 Raja Rammohan Sarani, Kolkata - 700009

Chromosomes – the vehicle of genetic information, have occupied a pivotal position in the field of genetics and the karyotype describes the chromosome count in relation to number and structure of an organism. The study of whole sets of chromosomes of a particular species is known as karyology. The karyotype is generally an invariant characteristic feature of each species that allows us not only to investigate the structural and numerical chromosomal aberrations of the cell but also to solve various phylogenetic riddles, in plant as well as animal taxonomy. Alterations of the structure of karyotype by chromosomal aberrations are also one of the biological end points for clastogenic, mutagenic and carcinogenic influences. Moreover, karyotype analysis indicated that cancer cells are characterized by different types of chromosomal aberrations such as aneuploidy, fragmentation, translocations, pulverizations, marker chromosomes, etc. So evolution with speciation, chromosomal disorders in human as well as in animals and cancer are due to the same causation mechanism: chromosomal instability. The purpose of this review is to highlight emerging concepts of chromosome organization on the basis of two fundamental aspects – i) banding, ii) banding, iii) banding, iv) banding, v) banding, etc. A great number of chromosome banding techniques (such as C-banding, G-banding, H-banding, R-banding, Fluorescence banding, etc.) has made it possible to study karyotype of animals in great detail. Some applications of methodological abnormalities have been found in many types of tumour that have been used as prognostic marker. Moreover, the identification of such karyotypic change has increased our knowledge about the mechanisms that lead to the development of therapies targeting a specific tumour or cancer cell. Among the different conventional treatments, combination therapy is comparatively ideal. The ultimate aim of combination therapy is to kill the proliferating neoplastic cells without disturbing the homeostatic principle of the body. The effects of anti-neoplastic drugs on tumour chromosomes provide valuable information for better monitoring of cancer treatment. Chromosomal damage recorded in higher metaphases in enter into the next cycle and thus cause inhibition of cell division, resulting in cell death or apoptosis. So, karyotype alterations can be used as novel cytogenetic technique to measure mitotic cell death or apoptosis. This type of chromosomal alteration is known as mitotic catastrophe that could have wide basic research applications. The possible significance of these findings will be discussed.

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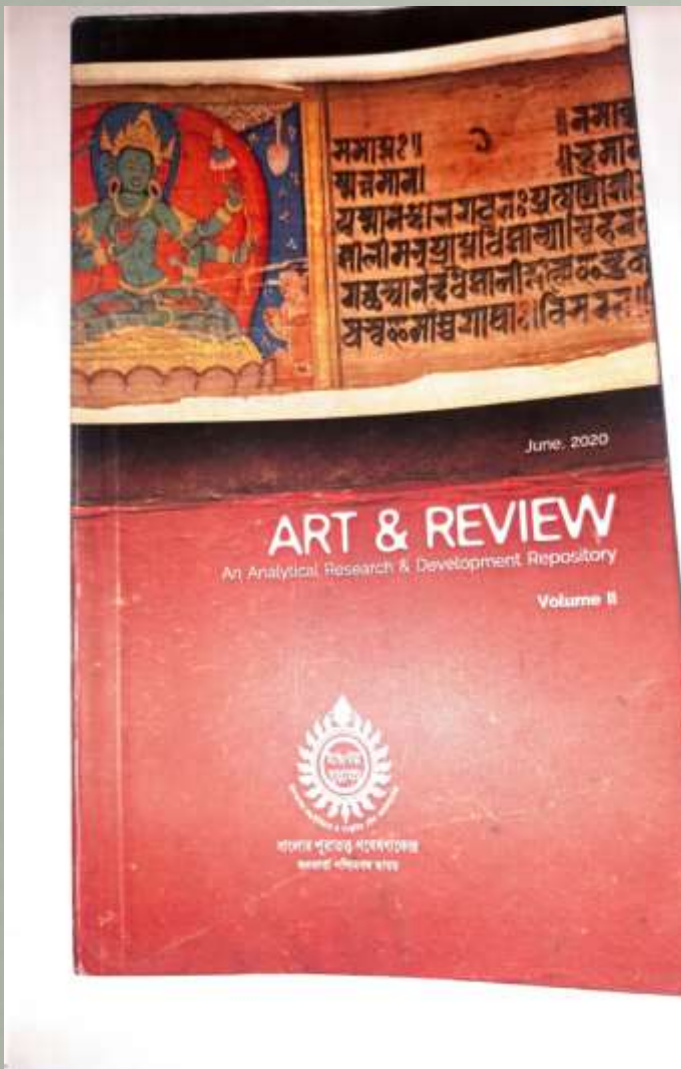
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Date 20

Year: 2020

Name of the teacher: Dr. Suranjan Sarkar

Title of book/chapter/paper: Art and review (Bharatiya Samaje Narir Sthan)



• মপিপুত্রে লোক নৃত্য শব্দবিবরণ — প্রিতি মহন্ত	136
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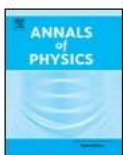
Year: 2020

Name of the teacher: Dr. Ranajit Mandal


Title of book/chapter/paper: Probing early universe with a generalized action.

Annals of Physics 422 (2020) 168317

Contents lists available at ScienceDirect

 Annals of Physics 

journal homepage: www.elsevier.com/locate/aop

Probing early universe with a generalized action 

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ARTICLE INFO	ABSTRACT
<p><i>Article history:</i> Received 31 July 2020 Accepted 4 October 2020 Available online 10 October 2020</p>	<p>Possibly, the most general action in the background of isotropic and homogeneous space-time has been considered to study the quantum evolution of the early universe, apart from a cosmological constant. The hermiticity of the effective Hamiltonian operator in the presence of curvature squared terms suggests unitary time evolution of the quantum states, assuring conservation of probability. The oscillatory behaviour of the semi-classical wavefunction around a de-Sitter solution signals that the theory is classically allowed, and the universe enters an inflationary regime just after Planck's era. In view of a hierarchy of Hubble flow parameters, and using a redefined effective potential, the complicated classical field equations in the presence of several coupling parameters, reduce to standard general-relativistic equations with a single scalar field. As a result, inflation has been studied without considering any additional flow parameters. Inflationary parameters lie very much within the presently available Planck's data, and the model admits graceful exit from inflation.</p> <p>© 2020 Elsevier Inc. All rights reserved.</p>

1. Introduction

In quantum mechanics, 'unitarity' is a restriction on the allowed evolution of quantum systems that ensures the sum of probabilities of all possible outcomes of an event is always normalized

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<https://doi.org/10.1016/j.aop.2020.168317>
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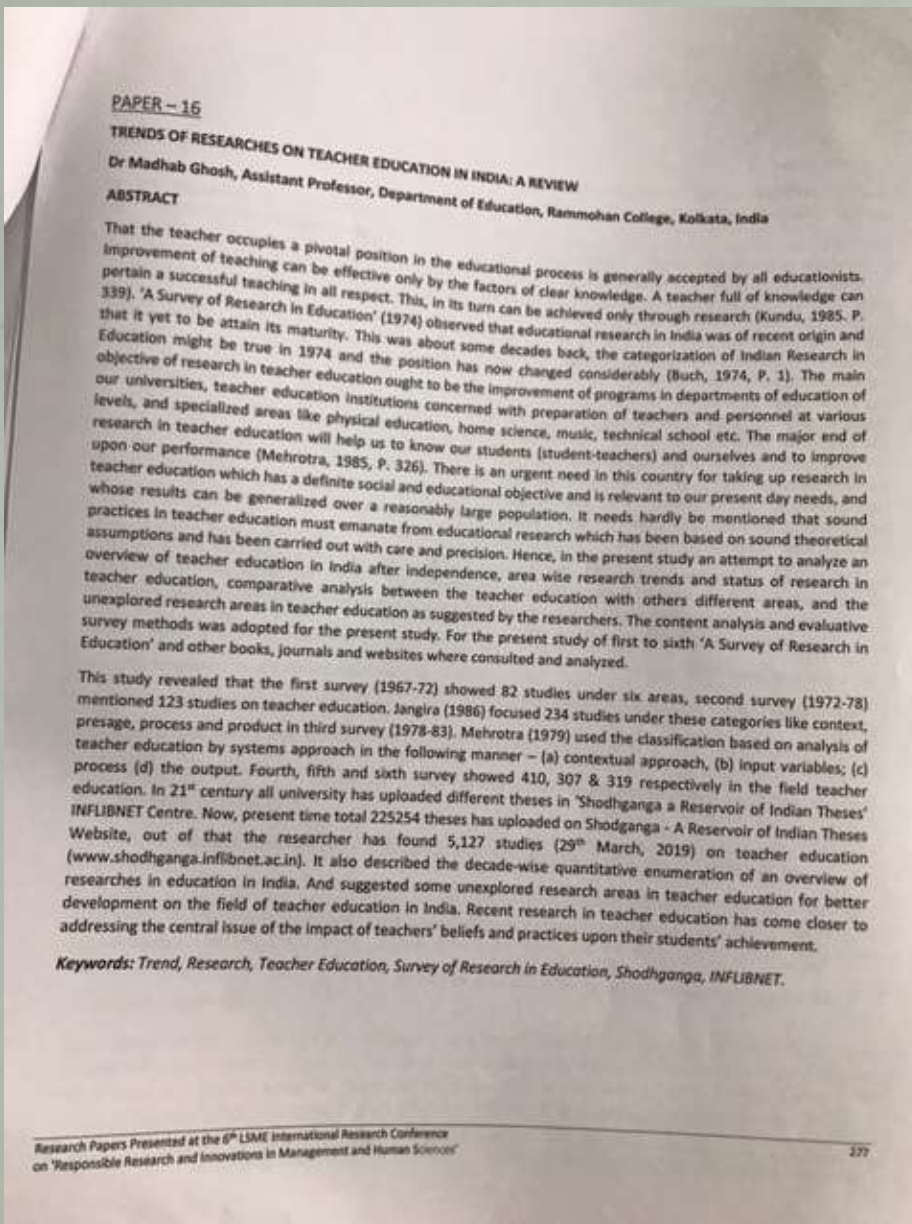
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Date 20

Year: 2020

Name of the teacher: Dr. Madhab Ghosh

Title of book/chapter/paper: Trends of Researches on Teacher Education on India: A Review



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Year: 2020

Name of the teacher: Dr. Sahana Mazumder

Title of book/chapter/paper: Physical Distancing With Suspect to Avoid Covid - 19 in Different Workstations.



Physical Distancing with Suspect to avoid COVID - 19 in Different Work Stations

TanujChoudhury and SahanaMazumder
Research scholar, Department of Physiology, Rammohan College,
University of Calcutta.
Associate Professor, Department of Physiology, Rammohan College,
University of Calcutta.

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Mac J. E. \Anand Press (2020: SomnathGangopadhyay).Book\ 148 Proof\ 23.2.2021

Abstract

In emergency, public health authorities around the world are taking action to contain the COVID-19 outbreak. However, long-term success cannot be taken for granted. All sections of our society including businesses and employers must play a role if we want to stop the spread of this pandemic.

If someone who has COVID-19, coughs or exhales they release droplets of infected fluid. Most of these droplets fall on nearby surfaces and objects - such as desks, tables or telephones. Normal person may get affected if he or she gets in touch with the infected droplets present on the objects mentioned above. Most of the infected person may require critical hospital care.

As per industries are concerned, employees may have higher chances of being infected if a single person carries COVID-19 causing virus.

In order to contain the spread of COVID-19, employees and the employees must practice best cleanliness and hygiene, as well as social distancing inside the campus or workplace. Workers must use hand sanitizers and disinfectant as frequent as possible or required. In the workstation, the worker must maintain a distance to be at safe site, using proper mask. If anyone has returned recently from COVID-19 affected area, should self-isolate himself/herself. The person should also keep observing himself/herself for any symptoms for at least 14 days, as the virus has an incubation period of 2-14 days.

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