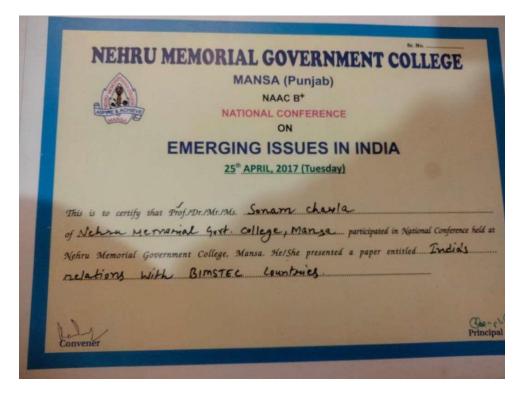
1. Book Chapter 'India's Trade relation with BIMSTEC Countries' by Prof. Sonam Chawla



2. Book Chapter ' MahilaSashaktikaran' by Dr. Harvinder Kaur

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3. Book Chapter 'Deteriorating position of Punjab Economy : A Study' by Prof.Kuldeep Singh, Prof.Seema Jindal, Prof.Ravinder Singh

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4. Book Chapter 'Yoga : A Way to Health, Youth and Beauty' by Prof. Simple Bansal

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5. Book Chapter 'Impact of Facebook on Youth' By Prof.Jyoti, Prof.Ashu Garg

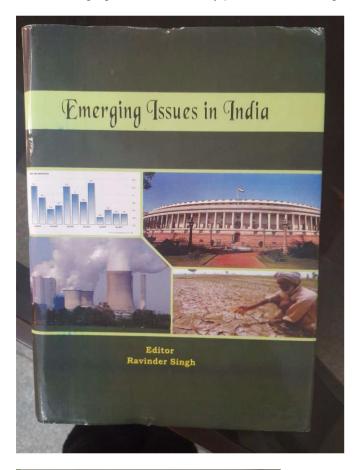
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6. Book Chapter 'Representation of Culture Conflicts and Predicament of Indian diaspora' by prof. Pratibha Jindal

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7. Book 'Emerging Issues in India' by prof. Ravinder Singh





Research paper 'Importance of Biomathematics in Social and Biological Sciences' in 8. conference proceedings by Prof. Simple Bansal



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nal Conference on Adva a in Engineering and Technology, (ICAET-2020)

Importance of Biomathematics in Social and Biological Sciences

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Vinod Kumar Guru Kashi University, Talwandi Sabo, Bathinda, Punjab, India

Diksha Srivastava MPUAT, Udalpur, Rajasthan, India.

ABSTRACT

ABSTIRACT Is this paper, we investigate on development of mathematical education and research expectably in medical as well as biological acioness. Also, why is caractual the study of biomathematics. Take, were, differentiate the study of signators, in calculation and the study of a signators, in calculation and an analysis of the culture problems of the society. Therapeter, this research capitaling much mathematical society is to spread the knowledge of new mathematical techniques for medication and imprevenent in health care polices.

Keywords

Infectious Disease, Treatment, SIR Model, Biomathematics, Mathematical Model, Stability

Nomenclature:

Variable and Parameters	Definition of Variable and Parameters
s	Susceptible compartment
1	Infected compartment
R	Recovered compartment
E	Exposed compartment
D	Death compartment
8	Transmission rate
y.	Infection rate
	ccovery rate
	CTION microbiology interrelated which is the

1. INTRODUCTION Epidemiology and microbiology interrelated which is the branch of biology, in which spidemiology plays an important role in the spread and evaluation of an epidemic disease. The turn epidemic, explain as a sudden outbrack of infectious disease spreading mpidly through population affecting a large number of peoples in the meisty. The impact of infectious disease on human beings has been calculated by the mathematical measures like number of affected cases and number of death cases attributed to a specific infection. This mathematical incasures role and information. This number of death cases stubutable to a specific infection. This mathematical measure provides the actual information regarding overall medical system in the society as well as the real burden of diseases on agriculture and human healthcare system [1]. Muthematical medicaling space, pickpices, Agraphys, is known as advanced tool to adva any complex situation or explore the different stages of the specific biological problem. Mathematical and computational medical specario, paymethen new technologies and identifies the new challenges in biological

Vdla QCA)atjop, There are many mathematical models which has been used by many seientists, researchers and mathematicians as 33R epidemic model, Legistic growth model, delay mathematical model, Produce-Qpg, model, Lettes-Volters model, Stochastic model, Visus Dynamics and to m. Security provide a stability of the model and calculate the mathematical solution of the particular problem Thereupon, this mathematical model predict a valuable remarks for the future and ament status of the biological problem [2,3,5,7].



Figure 1: Mathematical Modelling

Mathematical modelling has explained each stage compartmentally in any real world problem like Biology, Misrobiology, Brysies, Mathematics, Futury Logic, Medical, Engineering and so on this process mathematical modeling convert real world situation into mathematical model and this model provide a mathematical solution of the existing problem and thereapon we interpret this mathematical solution in the language of real world [4,5].

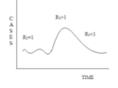


Figure 2: The Basic Reproduction Number

The basic reproduction mumber (Ra), drifter, as the differ of contact rate and duration of infection. Mathematically,

 $R_0 = Contact Rate - Duration of Infection$

9. Book Inj Vi HoSakde by Prof.Seema Jindal

