3.3.2 Number of research papers per teacher in the Journals notified on UGC website during the last five years.

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AN ETHNOBOTANICAL STUDY OF MEDICINAL PLANT -IN GURGAON DISTRICT

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ABSTRACT

ABSTRACT Ethnobotanical survey based on utilization of plants by the tribals has gained much importance in the recent past all over the world. In India, lot of work has been done, both at national and regional level. There are several methods of ethnobotanical research in literature and the field studies. The survey focuses on identifying plant species used and manipulated by local communities for cure in various aliments. Many survey of Gurgeon district have been conducted for the documentation of ethnobotanical data and exploration of forsitie diversity. A total of 56 species belonging to 34 families have been surveyed during 2014-15 for exforation of enhanobotanical plants. Major plants parts else levers, futis, seeds, barks and roots. Medicinal plants are listed according to botanical name, family, local name, plant part used and use value.

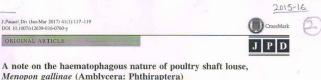
Key words : Ethnobotany, Gurgaon, Haryana, Medicinal Plants, India

INTRODUCTION

Or

Ethnobotany is a multidisciplinary science defined as the interaction between plants and people. The relationship between plants and human cultures is not limited to the use of plants for food, clothing and shelter but also includes their use for religious ceremonies, ornamentation and health care [11].Ethnobotany studies the complex relationships between (uses of) plants and cultures. The focus of ethnobotany ig on how plants have been or are used, managed and perceived in human societies and includes plants used for food, medicine, divination, cosmetics, dyeing, textiles, for building, tools, and the science of the science of the science of the studies of the science of plants used to hold, including of match, each of the and music. Furthermore, such studies are often significant in revealing locally important plant species, sometimes leading to the discovery of crude drugs [2],[3]. In the past, ethnobotanical research was predominately





Surendra Kumar¹ · Aftab Ahmad¹ · Rehmat Ali¹ · Vijay Kumar¹

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Abstract An analysis of the crop contents of the poultry shuf lonse, Menapone galina indicates that 67 % of adult males and 72 % of the adult females examined carried red content compatible to host blood, along with feather bar-bules. The percentage of nymphal instars carrying red content in the crop was quite low. On the basis of crop contents the louse does not seem to harbor any triturating agent and is also not involved in cambalism or predation. SEM studies on the ventral side of head do not indicate the sensence of any nointed structure which can be used to presence of any pointed structure which can be used to pierce the skin.

Keywords Menopon gallinae · Poultry shaft louse · Haematophagous louse · Amblycera · Phthiraptera

Introduction

Vijay Kumar entomology3@yahoo.com

Avian Phthiraptera exhibit considerable diversity with respect to feeding habits. Some species are parely feather feeders; others consume the host blood occasionally while still others are habitually harmstophagous. The degree of harmfuness of avian lice is generally determined by their feeding habits and also the population density. Hae-matophagous species do not only affect the vitality and productivity of their hosts and often act as reservoir and transmitter of the strains of infectious diseases among the hosts. Members of Menoponidae consume the host blood in

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sp. Inves in patiches of Pelecantormes and visits Teathers only to lay eggs, presumably feeding on blood, mucus and skin debris (Dubinin 1947). *Gyropus ovalis* and *Giliricola* sp. Reportedly rely upon serum and secretions of their hosts (Marshall 1981). The present report furnishes information on the degree of haematophagy of a poultry shaft louse, *Menopon galli-nue* with respect to sex, stage and mouth parts. Materials and methods

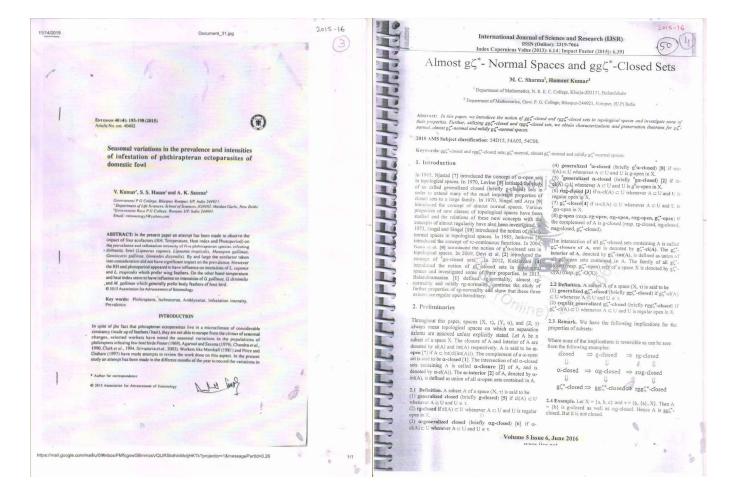
Freshly collected live adults and different instars of nymphs of *M. gallinae* were collected from career hems and dissected in Insect Ringers Solution under Stereozoom Trinocular Microscope. The crop of the specimens was taken out and teased on glass slide to analyze the gut contents. For SEM studies, lice were firsted in 2.5 % gluteraldehyde, post fixed in 0.2 M phosphate butter, cri-lenblu died enversed on a viscous de content of contents. ically dried, arranged on aluminum stubs covered with double sided cello tape, gold coated and examined under Scanning Electron Microscope.

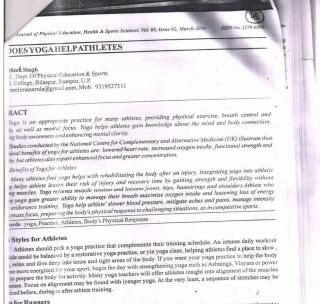
varying degree (Wilson 1933: Crutchfield and Hixson 1943), Kalannard (1963) confirmed the blood feeding habits of two species by detecting hemoglobin with crystals Teichman method and by contact autoradiography, using Fe³⁹ isotope. Haematophagous nature of selected species e.g. Menacanitus eurysternus, infesting common Myna Acridoheres: tristis (Agarwal et al. 1983), Trinoton maserinum occurring on swans (Seegar et al. 1976) Trino-ton querquedule parasitizing Anas c. creeca (Sasena et al. 1985), Heterodoxus springer intesting dogs (Agarwal et al. 1985), Heterodoxus springer intesting dogs (Agarwal et al. 1985), Heterodoxus springer intesting dogs (Agarwal et al.

members of Gyropidae reportedly eat upon liquid secre-tions of eye (Rothschild and Clay 1952). The Piagetiella

sp. lives in pauches of Pelecaniformes and visits feathers

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a for Runners Yoga provides a whole body workout for athletes, enhancing any cross-training program as a complement to ge cardio vascular workouts. Practicing yoga is beneficial to runners because yoga heips maintain the balance enstrengthening and stitching. According to the American academy of family physicians, 70 percent of all sets will be injured. Yoga exercise help tone the core, improve your range of motion and balance the body, while the motion of the state of the body. Yoga for runners should incorporate breath and balances to increase awareness of the body and breath.

ga Exercises for Athletes

igs and hamstring stretches will facilitate looser hamstring and greater flexibility. Seated spinal twists, standing

16-17 4 2016-17 lan J.Sci.Res. 16 (1): 104-106, 2017 ISSN: \$976-2876 (Print) NON - LINEAR OPTIMALITY MODELS WITH CONSTRAINTS SHIVOM SHARMA

pur, Rampur, U.P. ,India

ABSTRACT

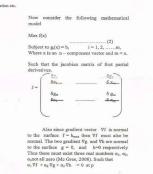
ABSTRACT The present work sins to forefire a simple a sessible to valuate several of the more effective methods techniques and aims smooth programming. If the function becomes nan smooth with non linearly the solu-techniques and aims smooth programming the sense of the second se KEY WORDS :Non linear optimal conditions, interpolation etc.

KET WORDS :Non linesr optimal conditions, introp In this work we shall discuss optimality and utilised optimality conditions, which are approximately a statistical of a point, provide the statistical of the statistical of the provide the statistical of the statistical of the statistical provide the statistical of the statistical provide the statistical of the statistical of the statistical provide the statistical optimal and their provide the statistical of the statistical of the statistical provide the statistical optimal and the statistical statistical optimal optimal optimal optimal optimal optimal statistical optimal optimal optimal optimal optimal optimal optimal statistical optimal opt

METHODOLOGY

ME INDUDULOGY Algebraic Derivation Considerible mathematical programming model including one or more equality constraints. We can reduce this model by using the constraints to edimination model by using the constraints to edimination model (Reither, 1987). Todevslop basic understanding (Reither, 1987). Todevslop basic understanding of the method of Lagrange multiplice let us consider indetail the following model. Max (ty) = {(fx_1, x_5, x_5)} = 0 The two constraints (x) = 0, and (x) = 0 Describe two surface in three dimensional Space.

Yol. No. 5, Issue No. 08 , August 2016



Indian J.Sci.Res. 17 (1): 42-44, 2017

NON LINEAR CONSTRAINED MODELS TO SOLVE THE VARIOUS MATHEMATICAL PROBLEMS

SHIVOM SHARMA pur, Rampur ,U.P., India ent of Mathe

ABSTRACT

In this work I will discuss constrained optimal anosch. Constrained nonlinear and non smooth models are much camplicated to solve the unconstrained ones with a comparable number of independent variables and degree from linearly because of the additional requirement that the solution must taikif the constraints. The number of constrained non linear and non smooth optimization procedure is centeredon one of three basic concepts. KEY WORDS: Non linear optimization

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The general non linear constrair is stated as follows

$\min f(x)$ $x = (x_1, x_2, \dots \dots x_n)$

 $\begin{array}{l} \min f(\mathbf{x}) & \mathbf{x} = (x_1, x_2, \dots, \dots, x_n, x_n) \\ \text{Subject to } g_i(\mathbf{x}) & = \int_{U_i} t_i = 1, 2, \dots, \dots, m \\ \text{Where fand } g_i \text{ are squar valued functions and } b_i \\ \text{are real numbers.} \end{array}$ Where indus galaxies are real numbers. The linearization of nonlinear models to meet the requirements for the iterativeapplications of linear programming method is one of the most obiviousapproaches to solve nonlinear programs.

Linear approximation of non linear functions is accomplished by replacing the non linear functions with their first order Taylor's series approximate expanded at the point of iterest. nonding Author

nine model **RESULTS AND DISCUSSION**Here I will use and explain the Quadratic
Programming and some approximation methods.
Various workness have developed algorithms to
implement approximation of quadratic function
instead of the inter functions of the methods by
Concoursing of the present of the second present of the second present approximation or make a
second order expansion of the general non linear
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point worse immodaced. For an unconstrained model
direction of descent with linear constrained and
procedure reduced to that of Rockastellar(1973).

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If a trivial constraint is violated, the stepsize in reduced by multiplying the current steplength by the ratio of distance between $x_1^{(0)}$ and its bounds if aprojection is to be made onto bounding constraint as an inequality constraint a $x_{12}^{(0)}$ different procedure is used. The co ent af (x(k)

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ernational Journal of Advance Research in Science and Engineering & No. 5, Issue No. 08, August 2016 inarse.con ALMOST γ-NORMAL AND MILDLY γ-NORMAL

SPACES IN TOPOLOGICAL SPACES

Hamant Kumar and M. C. Sharma

Department of Mathematics, N. R. E. C. College, Khurja-203131

ABSTRACT

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The aim of this paper is to introduce and study two new classes of spaces, namely almost γ -normal and midty γ The sense of this paper is to the considered and along two new General spaces, hencey minors provide and monty pro-normal spaces are weaker forms of 7-normal spaces. We show that these normal spaces, namely almost proormal spaces. and mildly y-normal spaces are regularly open hereditary. The relationships among normal, p-normal, y-normal, ß-normal, almost normal, almost p-normal, almost y-normal, almost p-normal, quasi B-normal, mildly normal, mild's p-normal, mildly p-normal, and mildly p-normal spaces are investigated. Moreover, we introduced some functions such as M-y-open, M-y-closed, almost y-irresolute, rgy-enrinnous and y-rgy-continuous. Further, utilizing gy-closed and rgy-closed sets, we obtain characterizations and preservation theorems for almost ynormal and mildly y-normal spaces.

Key words: p-open sets, almost p-normal, militly p-normal spaces. M-p-open, M-p-closed, atmost y-trresolute, rgy-irresolute, rgy-continuous and y-rgy-continuous functions. 2010 Mathematics subject classification: 54D10, 54D15, 54A05, 54C08.

UNTRODUCTION

Levine [6] initiated the study of so called generalized closed (bitefly g-closed) sets in order to extend many of the instance to another the state generative source uniting generative states in order to extend many of the most important properties of closed sets to a large family. Singal and Arya [18] introduced the concept of almost more important properties of concerned to a mag- management of the case of the important process. Various properties of new classes of topological spaces have been studied and the relations of these memory spaces, various properties or new cases or topological spaces have been studied and the relations of these new concepts with the concepts of almost regularity have also been investigated. The notion of mildly normal space was introduced by Shchepin [17] and Singal and Singal [19] independently. Neur [13] introduced a weaker form of the minorance p_2 minipage p_1 and p_2 and p_3 are a single properties. Makinoud et al. [7] introduced the notion of β -normality called spress and obtained their characterizations and properties reasonable can, 1/2 microarced the motion or p-normal spress and obtained their characterizations and preservation theorems. E. Ekici [3] introduced a weaker form of space non-commercial and obtained their properties. The relationships among normal, p-normal, s-normal and provinal spaces are investigated. The notion of quasi p-normal and mildly p-normal spaces were introdgeed by M. C. Sharms and Hamani Kumar [16]. The notion of almost p-normal and mildly p-normal sp G. B. Navalagi [9]. The notion of almost β -normal space was introduced by Nidhi Sharma [10]. aces were introduced by

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and preservation theorems for quasi p-normal spaces. Further we show that this property is a topological property and it is a hereditary property only with respect to closed domain subspaces. The

International Journal of Advance Research in Science and Engineering (

SPACES

Hamant Kumar¹ and M. C. Sharma² 1.2 Department of Mathematics, N. R. E. C. College, Khurja-203131, U. P. (India)

In this paper, we introduce the concept of myrclosed sets as weak form of my-closed sets. We also

introduce the notion of quasi y-normal spaces and by using mgy-closed sets, we obtain a characterization

QUASI γ-NORMAL SPACES IN TOPOLOGICAL TSSN

relationships among normal, m-normal, quasi-normal, mildly-normal, p-normal, mp-normal, quasi p-normal, mildly p-normal, y-normal, my-normal, quasi y-normal, mildly y-normal are investigated-2010 AMS Subject classification: 54D15, 54D10, 54A05, 54C08.

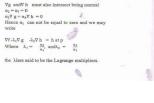
Keywords: n-open, y-open, and mgy-closed sets; mgy-closed, almost mgy-closed, mgy-continuous and almost ngy-continuous functions; quasi y-normal spaces.

LINTRODUCTION

ABSTRACT

The notion of quasi normal space was introduced by Zaitsev [14]. Levine [6] initiated the investigation of sclosed sets in topological spaces. Singal and Singal [11] introduced the notion of mildly normal spaces which are weaker than quasi-normal spaces. Nour [9] introduced the notion of p-normal spaces and obtained their properties. Lal and Rahman [5] have further studied notions of quasi normal and mildly normal spaces. Dontchev and Noirt[1] introduced the notion of πg -closed sets as a weak form of gelosed sets due to Levine [6]. By using ag-closed sets, Dontchev and Noiri [1] obtained a new characterization of quasi normal spaces. Kalantan [4] introduced a weaker version of normality called π -normality and proved that π -normality is a property which lies between normality and almost normality. Ekici [2] introduced a new class of normal spaces, called y-normal spaces and the relationships among s-normal, p-normal and y-normal spaces are investigated. Thabit and Kamarulhaili, [13] introduced a weaker version of p-normality called np-normality, which lies between p-normality and almost p-normality. Recenty, Thabit and Kamarulhaili [12] introduced a weaker form of p-normality alled quasi p-normality, which lies between mp-normality and mild p-normality. 300

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ξ-Normal and ξ-Regular Spaces in Topological

4. $\xi\text{-closed}$ [2] if $\alpha Cl(A) \subset U$ whenever $A \subset U$ and U is gat-open in X_i

g-open (resp. ag-open, gα-open, ξ-open) if the complement of A is g-closed (resp. ag-closed, gα-closed, ξ-closed).

The intersection of all \$-closed sets containing A is called \$-closure of A, and is denoted by \$CI(A). The \$-interior of A, denoted by \$Int(A), is defined as union of all \$-open sets contained in A. The family of all \$-closed (resp. \$-open) sets of a space X is denoted by \$C(X) (resp. \$O(X)).

2.2 Lemma. Let A be a subset of a space X and x ∈ X. The following properties hold for ξCl(A):

(i) $x \in \xi C(1A)$ find only if $A \cap U \neq \phi$ for every $U \in \xi O(X)$ containing x. (ii) $A \in \xi C(2A)$ containing x. (iii) $\xi C(A) = \xi C(B)$ if $A = \xi C(A)$. (iii) $\xi C(A) = \xi C(B) = \xi C(A)$. (iv) $\xi C(X) = \xi C(A)$. (v) $\xi C(X) = \xi C(A)$.

2.3 Definition. A subset A of a space X is said to be generalized ξ -closed (briefly g ξ -closed) if $\xi Cl(A) \subset U$ whenever $A \subset U$ and $U \in \tau$. 2.4 Remark. We have the following implications for the

Where none of the implications is reversible as can be seen from the following examples:

2.5 Example Let X = (a, b, c) and $\tau = \{\emptyset, \{a\}, X\}$. Then A= (b) is g-closed but not closed

closed ⇒ g-closed

 α -closed $\Rightarrow \alpha g$ -closed

 ξ -closed $\Rightarrow g\xi$ -closed

Spaces

Hamant Kumar

Department of Mathematics, Government Degree College, Bilaspur-Rampur-244921, India Abstract: The aim of this paper is to introduce and study two new classes of spaces, namely Sourceal and Soregular spaces implication process. The relationships among neurand, constant, constant, forwards and constant spaces are investigated. Mereover indicated states forwards and specificate for Specification for Specific Relationships and an anti-interaction spaces, properties of the forma of godenteel for Specification for Specific Relationships and Specific Relationships and Specific Relationships and the specific Relationships and processing and the specific Relationships and t

Keywords: &-closed sets, &-normal, &-regular spaces, g&-closed and &-g&-closed function 2010 Mathematics Subject Classification: 54D10, 54D15, 54A05, 54C08.

1. Introduction

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2. Preliminaries

2.1 Definition. A subset A of a space (X,τ) is said to be 1. generalized closed (briefly g-closed) [3] if $Cl(A) \subset U$ whenever $A \subset U$ and $U \in \tau$.

2. generalized α -closed (briefly α g-closed) [6]) if $\alpha C(A) \subset U$ whenever $A \subset U$ and U g τ .

3. generalized α -cloved (briefly go-closed) [5]) if A^{m} (b) is g-close at $\Omega(A) \subset U$ whenever $A \subset U$ and U is α -open in X. Volume 5 Issue 9, September 2017

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Impact sector 3.225 (mir). 1534-2456-2565 Contribution of Ashtang Yoga in Enhancing the Psychological Variable and

Quality Of Life of Young Adults Mrs. Neelima Singh 1, Dr. Usha Johan 2 Assistan Professor, Department of Physical Education, Govt. Degree College, Bilatpur, Ramp Physicsor, Dept. of Physical Education, Kunikshetra University, Kunikshetra (Haryana) India.

Received Oct 20, 2017; Accepted Oct 29, 2017; Published Oct 30, 2017

Abstract The purpose of the research was to evaluate the Thypological variable effects of four month of daily straction (energy foundary and gazeted holdsty) ashang yang taning. He hypothesis was the four month of a allast group partice would avail for the and feasible effects on Psychological variable. All the hypothesis was the hypothesis was allowed for the strateging of the strategin

(Statistical analysis revealed significant effect of advance yoga practica) An analysis of variance (AAXOVA) food a statistically significant improvement between pre and post tests of all the variables. It study concludes that focus months advance yoga practice provide a sufficient stimulus to imp the Psychological variable in untrained college adults. Key Words: Ashtang Yoga, Psychological, Young Adults, Quality of Ule

1. Introduction

All the orthodox systems of lodian Philosophy have one goal in view, the liberation of the soul through click. The method is by Yoga. Yoga is an ancient displayed esigned to bring balance and health to the physical, all emilicial, and esignitud dimension of the individual; it is large popular practice in India that has become safely more common in Western society.

Increasingly more common in Wastern society. Before gift Reis viposititati vitral infordula Viega is the restricted the modifications of the mini-stuff See Paramic lines, 212 translation by Reiser Wieeksands from though vispo has been mentioned in vivolos inclues team, includes; the Vietas, Upantabadi, the Biogared Gillar etc. the oraclin for teather a format, consisten-biologically of vigos to See Sare Paramight. In Virga Sorus, Reiserilli laba provide that way associe of the philosophy and teachine; in vigos in a highly scientific and systematic exposition. The Yags Sorus, Reiserilli laba provide that way associe of the philosophy and teachine; in vigos in a highly scientific and systematic exposition. The Yags Sorus, Reiserilli labar gift Reiserilli labar and the set of the philosophy of the sin highly of Yags. The book is as of 615 aphroxims (virsal), which and beel and are a way: importan-be exponention of paramight are also Sorus are an encomposity inferential work that is that is in the instema for years ablocophy on practice today as it was when it was extend. The Ying Start of Paramight are benomedrizes referred to as 'Raja Togs'' or the "Norshi Togs". Nags is an anciente today and areactee of benomizes.

The You's dotted of Pastialial are also sometimes referred to as "baja topa" or the "Boys' Nos". Tops is in an activitie to dott grandlike of Pastialia, focus and postures that brings transmitty, hwateversary and ultimately a protor connection with the work grain is maximized as "you's or "hum" and the express of grain and the total focus of the set dotted brings and any participant protocol and the set of th

ational Journal of Mathematics And its Applications Almost β -Regular Spaces and Almost $rg\beta$ -Closed Functions Hamant Kumar^{1,*} 1 Department of Mathematics G ree College, Bilaspur, Rampur, Uttar Pradesh, Indu The size of this paper is to introduce and study a new data of spaces, namely about it-regular spaces which are of the nearests of about regular spaces and pergular spaces and to obtain zeros distributions of distributions of about the particular state of the space space space of the space space space about its space about its space about its space space space space space space space space is that about the dispersion of about its space space space space space is that about the regularies its parameter space space space space space space space space space is that about the regularies its parameter space space space space space space space space space is that about the regularies its parameter space is that about the regularies its parameter space is that about the regularies its parameter space spac

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And Appl., 6(2-A)(2018), 243-250

D 1. Introduction

> 1969, Singal and Arya [20] introduced a weak form of regular spaces call is 100, Sicul and Arya [20] introduced a weak form of regular spaces called abuset regular spaces and obtained tours characterisations. In 1970, Levine (6) introduced and studied generalized closed sets in general topology as a generalization of close sets. This concept was found to be used and many renaliti in general topology are as generalization of sole sets. This concept was found to be used and many renaliti in general topology are as a generalization in an experimental sets of the sets of the set of the sets of the sets in an expected in the set of the set died almost p-regular spaces which were generalizations of both almost regular spaces and p-regular spaces. In 1993, palaniappan and Rao [16] introduced and studied regular generalized closed sets. In 1995, Donthev [4] defined and anostigated generalized S-closed sets. In 1998, Note 114 introduced sets. In 1995, Donthev [4] defined and permanyone and too too into measurements and example against generations comes eras. In these sources permittee py unitates and signed programmed 3-closed atta. In 1988, Noiri [14] introduced rgp-closed area and used these sets to obtain further exteriorations of almost regular spaces and almost p-regular spaces. In 2008, Tahillani [22] introduced generalized 3-closed ----machines and obtained some new characterizations of β -regular spaces. Recently, by using β -closed sets, M. C. Sharma and ----

in this paper, we introduce and study, new data of speces, namely situat, 3/regular spaces and its obtain some datase-remarkies of situat 3/regular spaces. Parther, by using rg3-dated sets, we define 3/rg3-dated functions and to obtain severable theorems of almost 3/regular spaces. The relationships among p-regular, 3/regular, almost regular, almost alar, almost β -regular spaces are investigated. The main result of this paper is that almost β -regularity is preserved Takier M-d-open \$-rg\$-closed surjective R-maps.

Quasi &- Normal Spaces and G&-Closed Sets

Hamant kumar Department of Mathematics Government Degree College, Bilaspur-Rampur-244921, U.P. India

Abstract

In this paper, we introduce the concept of g5-closed sets as a weak form of g-closed sets. By utilizing g5-closed sets, we define g5-closed, almost g5-closed, g5-continuous and almost g5-continuous functions. We also introduce the notion of quasi 5-normal spaces. For the set of this property is a topological property and it is a hereditary property only with respect to closed domain subspaces. The relationships among normal, a-normal, quasi normal, softly normal, and it, a -normal, a-normal, softly c-normal, set.

1. Introduction

1. Introduction
The concept of a-open sets were introduced by Njastad [10]. The notion of quasi normal space was introduced by Zaitev [14]. Levine [8] initiated the study of so called g-closed sets in order to extend many of the most important properties of closed sets in order to extend many of the most important properties of closed sets in a large family. This concept was found to be useful and many results in general and Rahman [7] have introduced the notion of mildly normal spaces. Doutchev and Noiri [4] introduced the notion of geological sets, Doutchev and Noiri [4] introduced the notion of geological sets, Doutchev and Noiri [4] introduced the notion of geological sets, Doutchev and Noiri [4] introduced the notion of geological sets, Doutchev and Noiri [4] introduced the concept of \$2-closed sets, Areckiami and Janaki [1] introduced the concept of \$2-closed sets, Areckiami and Janaki [1] introduced the concept of \$2-closed sets, Areckiami and Janaki [1] introduced the concept of \$2-closed sets, Areckiami and Janaki [1] introduced the concept of \$2-closed sets, Areckiami and Janaki [1] introduced the concept of \$2-closed sets, Areckiami and Janaki [1] introduced the concept of \$2-closed sets, Areckiami and Janaki [1] introduced the concept of \$2-closed sets, Areckiami and Janaki [1] introduced the concept of \$2-closed sets, Areckiami and Janaki [1] introduced the concept of \$2-closed sets, Areckiami and Janaki [1] introduced the concept of \$2-closed sets, Areckiami and Araki [2] introduced the concept of softy normal spaces and obtained its properties. Humant Kumar [5] introduced the concept of \$2-closed sets and and will wing \$2-closed sets, and a characterization and some preservation theorems for \$2-closed sets and balance and \$2-regular spaces.

2010 AMS Subject classification: 54D15, 54D10, 54A05, 54C08, Keywords: -open, ξ-open, gξ-open, closed, ξ-closed, and gξ-closed sets; g5-closed, almost gξ-closed, gξ-continuous and almost gξ-continuous²functions; quasi ξ-normal spaces.

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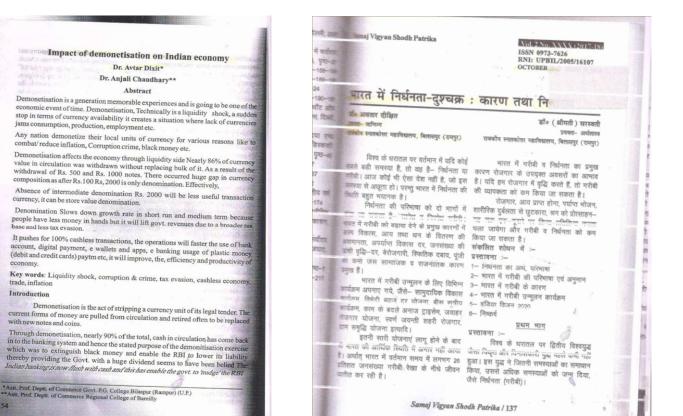








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Studies on Minimization Procedures Using Derivatives

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Abstract

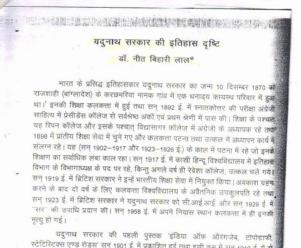
The unconstrained minimization problem is that of finding a point form a set of point that gives the least value of the objective f(x) where it is not expected that the least value will be taken on by a point on the boundary of the region of constraints. In this paper algorithms for unconstrained non linear and non smooth models are given. In this paper we study pre established models and results and gathered information. Where we shall develop algorithms for unconstrained non linear and non smooth estimation models.

Introduction :- In this paper we describe second derivative methods. We consider many solution, techniques and these techniques have been selected from the view point of their effectiveness by themselves and in connection with the algorithm discussed in subsequent paper describing constrained non linear programming algorithms require the use of effective unconstrained minimization procedure the general non linear model without constraints reduces to just. Minimize if $S(S) = XE^{B-1} = \dots(1)$ Where f(x) is the objective function P^{m} is the Euclidean space. Here we derive methods and algorithms that leads to a stationary point of f(x). that is $\nabla f(x^{*}) = 0$ by using first and second partial directions prescribed by steepest descent, then Newton method, conjugate directions and finally some of the methods of approximating the direction given by Newton method by using only first derivatives. The second derivative so of (x) the best known is Newton's series. These methods use second order information of f(x) with respect to the independent variables.

Result and Discussion - The transition point from a point $x^{(k)}$ to another point

Result and Discussion - the transition point from a point $x^{(N)}$ to another point $x^{(N+1)}$ can be given by expression $x^{(N+1)} = x^{(k)} + \Delta x^{(k)}$. The steepest descent method is due to cauchy in which the gradient of the objective function f(x) at any point x is a vector in the direction of the greatest local increase in f(x). The direction of steepest descent defined at $x^{(k)}$ by.

 $\hat{S}^{(k)} = -\frac{\nabla f(x^{(k)})}{\|\nabla f(x^{(k)})\|}$ Putting this value in $x^{(k+1)} = x^{(k)} + \lambda^{(k)} \hat{s}^{(k)}$ $\chi^{(k+1)} = \chi^{(k)} - \frac{\lambda^{(k)} \nabla f(x^{(k)})}{\|\nabla f(x^{(k)})\|}$ ----- (3) O $x^{(k+1)} = x^{(k)} - \lambda^{*(k)} \cdot \nabla f(x^{(k)})$ ----- (4) Where $\lambda^{*(k)} = \frac{\lambda^{(k)}}{\|\nabla f(x^{(k)})\|}$ 188N 2249-9598 Page 1



स्टेटिस्टिक्स एण्ड रोड्स' सन् 1901 ई. में प्रकाशित हुई तथा इसी क्रम में सन् 1919 ई. में दो खण्डों में प्रकाशित पुस्तक 'औरंगजेब का इतिहास' इतिहास लेखन में महत्वपूर्ण स्थान रखती है इस पुस्तक का पंचवा तथा अंतिम खण्ड सन् 1928 ई. में छपा। इनका शोध ग्रंथ शिवाजी एण्ड हिज टाइम्स' भी सन् 1919 ई. में प्रकाशित हुआ जिसमें फारसी, मराठी, राजस्थानी और यूरोपीय भाशाओं में उपलब्ध सामग्री का सावधानी से उपयोग कर यदुनाथ सरकार ने ऐतिहासिक खोज का महत्वपूर्ण कार्य किया और मूलभूत खोतों के आधार पर शोध करने की परंपरा को दृढ़ किया। विशेष रूप से जयपुर राज्य में सुरक्षित फारसी अखबार और अन्य अभिलेखों की ओर इतिहासकारों का ध्यान आकर्षित करने और उनको शोध कार्य के लिए उपलब्ध कराने का महत्वपूर्ण कार्य यदुनाथ सरकार ने किया। इनकी दृष्टि में औरंगजेब एक महान विमूति था, जिसने भारत राजनीतिक रूप से एकतंत्र में बांधने का प्रयास किया, किन्तु अंततः वह अपनी योग्यता और अथक परिश्रम के बावजूद अपने दृष्टिकोण की संकीर्णता के कारण असफल रहा।

यदुनाथ सरकार ने मध्यकालीन भारतीय इतिहास में विशेष रूप से औरंगजेब कालीन शोध प्रकाशित किये। इनकी रचना 'औरंगजेब का भारत', 'मुगल साम्राज्य का पतन'

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जी0 एस0 टी0 तथा राज्यों के राजस्व संग्रह में कमी व क्षतिपूर्ति

डॉ. अवतार दीक्षित*

आम बजट पेश होने के पश्चात जीठ एसठ टीठ को लागू हुए लगभग सात माह पूरे हो जायेगें. अभी तक का अनुभव यह बता रहा है कि व्यापारियों का एक वर्ग येन-केन प्रकारेण टैक्स वचाने वाले तौर--तरीको को अपनाये हुए है। जीठ एस० टी० की कंपोजीसन स्कीम के तहत जिन व्यापारियों ने अपना पंजीकरण कराया है उनसे अब तक बामुश्किल तीन सौ करोड़ रू० का कर एकत्र हो पाया है, जबकि पंजीकरण कराने वाले व्यापारियों की संख्या 11 लाख से अधिक है। स्पष्टट है कि तमाम व्यापारी गलत तरीके से अपना टर्नओवर 20 लाख ही दिखा रहे हैं। जीठ एसंठ टीठ काउन्सिल की बैठक में वित मंत्री अरुण जेटली ने इसका उल्लेख भी किया है। उन्होंने कहा कि राज्यों को इस छल–फरेब के प्रति सर्वत रहना चाहिए। क्योंकि इससे राज्यों का कर संग्रह गिर रहा है तथा कर संग्रह गिरने का सीधा असर आम बजट पर पड सकता है। इसमें तमाम विकास योजनाए प्रभावित हो सकती है। जैसे– शिक्षा व स्वास्थ्य जैसी बुनियादी जरुरतों के साथ सामाजिक योजनाओं पर राजस्व संग्रह में कमी विपरीत प्रभाव डाल सकती है।

जी० एस० टी० लागू होने के बाद राज्यों के राजस्व संग्रह में कमी का सिलसिला थम नही रहा है। जाए एसए टाए लागू हान क बाद प्राणा न प्राणान प्राण न प्राण के प्राणा का प्राणा का प्राणा का स्था के स्था के हो रही हाल यह है कि राज्यों के राज्स्व में कमी का आकड़ा क्षति पूर्वि सेस के रुप में सरकार को प्राप्ता हो रही धनराशि से भी अधिक है। यदि सेस के संग्रह में बृद्धि नहीं हुई तो केन्द्र सरकार को राज्यों को होने वाली राजस्व क्षति की भरपाई अपने खजाने से करनी पडेगी।

जी0एस02ी0 कानून के तहत जी0एस02ी0 लागू होने के बलते राज्यों को जितनी राजस्व हानि होगी, केन्द्र सरकार उसकी भरपाई सेल से करेगी। जी0एस02ी0 कानून के तहत प्रत्येक राज्य के लिए अपेक्षित राजस्व संघड का एक आंकड़ा फिक्स किया गया है। और अगर वहाँ जी0एस02ी0 संग्रह ऑकड़े से कम रहता है तो उसकी भरपायी का दायित्व क्रेन्द्र का होता है। ऐसे में यदि क्षतिपूर्ति सेस से कम राशि आती है तो फिर केन्द्र सरकार को अपने खजाने से राज्यों को क्षतिपूर्ति करनी होगी।

केन्द्रीय वित मंत्री अरुण जेटली की अध्यक्षता में जी०एस०टी० काउसिंल की 25 बी बैठक में चालू वित वर्ष में अब तक जीएएसoटी। के संग्रह के ट्रेंड का जायजा भी लिया गया। जिसमें बौकाने वाले तथ्य सामने आये। अब तक प्राप्त जानकारी के मुताबिक अगस्त से दिसम्बर के दौरान क्षतिपूर्ति सेस से हर सामन आव। अब तक प्रान्त आगण्डारा क मुता।पक अगस्ता सा ।वसन्वर क वायन वातभूता सस कर महीने औसतन 7615 करोड रुपये प्राप्त हुए हैं। जबकि इस दीशन राज्यों के राजरव संग्रह में जो कमी रही है उसका आंकडा काफी अधिक है। उदाहारण के तौर पर दिसन्बर में ही सभी राज्यों के 8894 करोड़ रुपये राजस्व हानि हुयी जबकि इस महीने में क्षतिपूर्ति सेस से मात्र 7848 करोड़ रुपये ही राजस्व प्राप्त हुआ है।

यह आंकड़ा इसलिए महत्वपूर्ण है क्योंकि जी०एस०टी० कानून के तहत जी०एस०टी० लागू होने के चलते राज्यों को जितनी राजस्व हानि होगी, केन्द्र सरकार उसकी मरपायी शतिपूर्ति सेसं से

वास्तव में (1) जुलाई 2017 से जी0एस0टी0 लागू होने के बाद शुरुआती महीनों में राज्यों को * असि० प्रो. (वाणिज्य) राजकीय स्नारकोत्तर महाविद्यालय, बिलासपुर, रामपुर

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ROLE OF DIFFERENT AGENCIES IN INFORMAL EDUCATION

Dr. Avtar Dixit Assist. Prof., Commerce Deptt Govt. P.G College, Bilaspur (Rampur) Phone No. 9411007679

ABSTRACT

Education is a thoughtful process by which the inner powers of the individual are developed. Education is verb broad in it, true sense and is not contined to school experiences. sense and is not continent to school experiences. But in a narrow sense education is a well-planned process. Education may be defined as a purposive conscious or unconscious psychological, sociological, scientific and philosophical process which brings about the coophical process which brings about the elopment of the individual to the fullest at and also the maximum happiness and develo extent and also the maximum happiness and property: T. Reymont has rightly remarked-"Education is that process of development in which consist the passage of human being from infancy to maturity, the process whereby be adapts himself gradually in various ways to his physical, social and spiritual environment." There are three important types of education, Formal, Non-formal Informal Formal Collection 9: 500-500

constituit is that education where according to predetermined aims and methods of teaching, definite dozes of knowledge are thrust into the mind of a child at a specific place during a set duration of a particular individual. e.g. schools, miteratine, ct. ducation is that education w

nots Dr. Saraswa ist. Prof., Ec

Non-formal education is in between t formal and informal types of education. In midway because it is partly formal and part informal it is both intentional and incidental as open schools, open unive

Sir Godfrey Thomas has written, and "The whole of environment is the instrument of man's education in the wildest sense. But a man's education in the whoest setise. Due that that environment certain factors and distinguishable as more particularly concerned the home, the school, the church, press, the vacation, public life, amusement and hobban Generally of course, the process of education continues from birth to death, but some specific institution.

evalu on, Formal Non-formal Informal Format minined aims and methods of teaching, dozes of Knowie are determined aims and methods of teaching, a dozes of Knowie deg are thrust at substances are the agencies of educances and they include all these factors, bases, factors, and bases of education mean the same factor and bases of education mean the same factors and bases of education mean the same factors and bases of education mean the same factors and bases of education and the same factors and and the same factor and the same factors and the same factors and bases of factors and the same factors and the same factors and bases of factors and the same factors and the same factors and bases of factors and the same factors and the same factors dissusing about informal education and the same factors and the same factor ation play more important part in it. Allow

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is rec incidental. There are no predetermined aim curricula, methods, teachers and places when children receive informal education: e.g. Family community, peer groups, etc. com recei role i a par

even rules mays the h

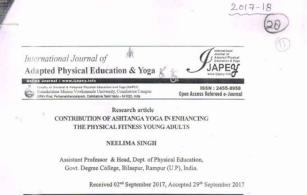
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INTRODUCTION

The method is by Yoga. Yoga is an

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ancient discipline designed to bring balance and health to the physical, mental, emotional, and spiritual dimensions of the individual. It is long popular practice in



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MAN AND SOCIAL DEVELOPMENT APPROACH IN PRESENT HIGHER EDUCATION SYSTEM IN INDIA

> Dr. Avtar Dixit Dr. Saraswati*

Education builds character, contribute to efficient human development. Impr

Education builds character, contribute to efficient human development. Improvement of human needs higher investments on social sector, which lead to higher growth of a Nation . Our great Religion culture, Ideology and great Religion books like Ved Purana and Ithihasa nid great stress on education and have shown characters that contributed to the growth of the Lord Rama is a Great Example of reputed character and immess health, which made Him are agreat deal for the rule of Rama Rajya – a perfect democracy linked to efficient development Bate . Even today His rule and His Satae. Ayodhya is a model being pursued through with the modern science and technology. Education has Played a positive role in human development. Mahama Gandhi ji very clearly and correctly wrote that education is the strong base for a strong character social culture as well as strong India. He emphasized. "basic education "to har people can live a happy life living only in villages, avoiding migration to cities. Moreover a strong character social culture as well as strong India. He emphasized. "basic education "to at people can live a happy life living only in villages, avoiding migration to cities. Moreover ed government to educate women who are the main pillars of society. Swami Vivekananda is strong man (women also included) with strong mind and strong heath, so that India could a strong and wealthy Nation world. He, in particular, wanted to promote women's education entire Nation. He advocates universities of education and health in India so that Nation can heath efficient human resources. The core components of human development are education where efficient human resources.

experience.

India's elite scientific and educational institutions maintain quite high standard In some

a the efficient human resources. The core components of human development are: educ

ith Higher education, in India is gradually entering into crisis situation, facing many problems idequacies. Though its spread is quite rapid, its step decline in quality is equally rapid with of financial resources, proper infrastructure adequate qualified staff etc. though government do allot nearly one percent of G.D.P. for higher education, government has settled at 0.8% dow which may further Decline for want of sufficient resources. Whereas foreign countries are mether allocation in higher education, research and development. India has not taken a leafter their allocation in higher education. ig their allocation in higher education, research and development, India has not taken a leaf

India's ellie scientific and educational institutions maintain quite high standard In some mes, the quality of education is very high and at par with the rest of the world. Since salary of isenals in India's very low in comparison to the industrial world, professional services in India are, favorably international competitiveness. Right now this is utilized mainly in information ngs, biotechnology, health care, banking, finance and in few other services. But there is a all of scope to expand it in almost all other services where we have already attained a fair of professional expertise. India can also be a centre of research and development due to high educational base in many fields of science and technology. In India the average workers, especially in the Informal sector, whether in agricultare, maring, or in Services, is poorly educated. They also suffer from poor health. The average moducitivity is therefore low, and in spite of low wage, the real cost of labour is quite high. It Professor, (Economics), Government Degree College, Bhoppur (Mandabad)

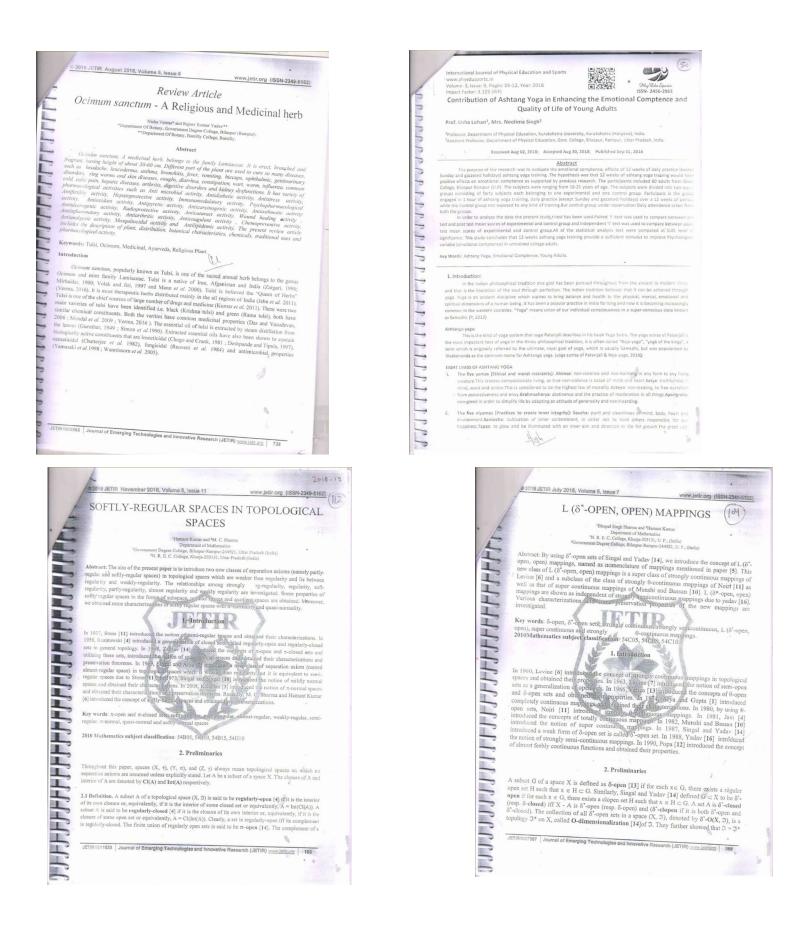
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Abstract The purpose of the research was to evaluate the Physical fitness effects of four monits of daily practice (except Sunday and gazzeted holidays) of ashtungs yoga training The hypothesis was that four months of ashtungs yoga practice would have positive effects or Physical fitness components Functional capacity and Carthol – respiratory endurance, Body composition, Abdominal strength, Endurance and Speed, Flexibility of the lower back and humstrings muscles as supported by previous research. The participants included do adults (male and female) both from Gov. P.G. College, Bilaspur Rampur (U.P). The subjects were anging from 18-21 years of age. The subjects were divided into how equal groups consisting of forty subjects each belonging to one experimental and one control Sunday and gazzeted holidays) over a four month of period, while the Control group was to exposed to any kind of activity. An andysis of variance (ANOVA) found a statistically significant improvement between pre and post tests core on all the variables. This studyes conclude that four month ashtunga yoga practice provide a sufficient simulus to improve all three variables in untrained college adults. Key word: Ashtunga yoga, Physical fitness, young adults

Key words: Ashtanga yoga, Physical fitness, young adults

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the orthodox systems of Indian Philosophy have one goal in view, the liberation of the soul through perfection.





Department of Mathematics Shyamlal Sarswati Mahavidhalaya, Shikarpur-203395, U. P. (India) Government Degree College Bilaspur – Rampur U.P India

Abstract: in this paper, we introduce, the notion of $g\alpha^{*}$ -closed and $rg\alpha^{*}$ -closed sets in topological spaces and investigate some of their properties. Further, utilizing $g\alpha^{*}$ -closed and $rg\alpha^{*}$ -closed sets, we obtain characterizations and preservation theorems for α^{*} -normal, almost α^{*} -normal and mildly α^{*} -normal spaces. characterizations and preserv

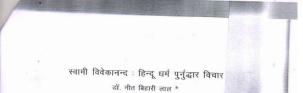
10 AMS Subject classification : 54D15, 54A05, 54C08.

rds : $g\alpha^*$ -closed $rg\alpha^*$ -closed sets, α^* -normal, almost α^* -normal and mildly α^* -normal spaces.

1. Introduction

In Introduced the concept of α-open sets in topological spaces. In 1970, Levine [6] initiated the study of so called generalized closed (briefly generalized solution) in the most important properties of closed sets to a large family. In 1970, Singla and Arya [10] introduced the concept of almost promal spaces. Narious properties of relevances of topological spaces. In 1985, Lankovic [3] introduced the concept of mex classes of topological spaces. Solve the study of an 1985, Singla (10) introduced the concept of mex classes of 10.2, Balasubmannian [11] defined re-normality, almost reprinting and spaces in topological spaces. In 1985, Lankovic [3] introduced the concept of re-continuous finicions. In 2000, Veera Kumar, M. K. R. S. [13] introduced the concept of re-continuous fanctions. In 2000, Veera Kumar, M. K. R. S. [13] introduced the concept of re-continuous fanctions. C. Sharma and Human Kumar [9] introduced the concept of generality, mildly re-normality, continue the study of further properties of rg-normality and shaves the operational spaces. In 2000, Veera Kumar, M. K. R. S. [13] introduced the concept of generality in a distribution of the concept of almost generality in the concept of almost generality and shave and behavior at characterization and preservation thereaves for almost generality and shave and obtained a classes and by using generality classes. Set the other of the concept of almost generality is and almost generality is a classes. Further shows that this roperty is a topological property and it is a hereditary property only with respect to closed domain subspaces.

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स्वामी विवेकानन्द ने भारत में हिन्दू धर्म का पुनरूद्धार तथा विदेशों में सनातन सत्यों का प्रचार किया। इस कारण वे प्राच्य एवं पाश्चात्य देशों में सर्वत्र समाज रूप से श्रद्धा एवं सम्मान की दृष्टि से देखे जाते हैं।

स्वामी विवेकानन्द का जन्म 12 जनवरी 1863 ई. सोमबार, पौष कृष्ण सप्तमी तिथि के दिन र्षणा ।ववलानम् का प्रमा ३८ जनवर ।३७८३ ३. तान्मर, अप खुटन प्राप्ता साथ कर प्र-रातकार त्यूरीवर के किंगित काल वाद 6 बजकर 46 मिनट पर कलकत्ता के सिमतिया मुहस्ते में अधिवक्ता विश्वनाथ दत्त और माता मुवनेश्वरी देवी की प्रथम पुत्र सत्तान के रूप में को छियु जन रसे देखकर उस समय कोन सोच पाया होगा कि मविष्य में जन्म के मात्र 39 वर्ष 6 माह के जीवन में एक ऐसी आश्चर्य जनक प्रतिमा का ऐसी महान शक्ति का –विकास होगा, जिसका प्रभाव देशकाल की मर्यादा के भीतर सीमावद्ध नहीं रहेगा।

गोग राजायब नग रहना। ऐसी प्रतिभा जो भिल्न-भिल्न समय के भिल्न-मिल्न परिस्थितियों में घले तर--गारियों के प्राणों में मानव आसा की शाश्वत मंहिमा, सरब न्याय मैत्री की सजीव प्रेरणा एवं निर्मय हो लोक कल्याण करने की रस्पूर्वी जगाती रहेगे। यह कमनीय कान्ति देव शिष्ठु जब धोरे--धीरे एक प्रिय दर्शन परन्तु तेजस्वी प्रतिभाशाली, शौर्य वीर्य-पराक्षम से पूर्ण एक नव युवक में परिणत दुवा, तब भी कोई सोय नहीं सका था कि यह नरेन्द्र नाथ दत्त, विश्व वरेण्य "स्वामी विवेकानन्द" बनेगा।

बालक नरेन्द्र साधक दुर्गाचरण के पौत्र थे और दुर्गाचरण कलकत्ता सुप्रीम कोर्ट के नामी वकील राममोहन दत्त के सुपुत्र थे। बालक नरेन्द्र के दो अन्य भाई महेन्द्र नाथ दत्त और भूपेन्द्र नाथ दत्त थे। स्वामी विवेकानन्द की बड़ी बहन का नाम स्वर्णमयी देवी था। इनके अतिरिक्त तीन बहनें थी।

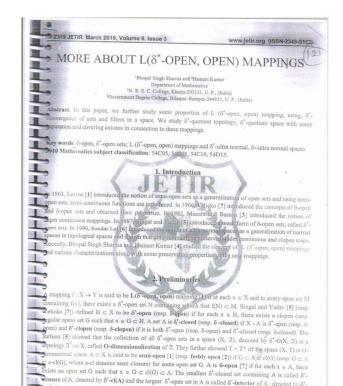
परिवा विश्वमना व आ कुछ रहन का गए भरानाम क्या आ हराय आप प्राप्त आप पर भाग रहन का गरेन्द्र एक मयुर, प्रमुल्ल एवं चंयल बालक के रूप में बड़ा होने लगा। उसकी अदम्य शक्ति को वश में लाने के लिये दो नोकधानीची की आवय्यकता होती थी। नरेन्द्र एक नटवट एवं रारारती लडका था जोप्रायः मयल उठता था। वह अपनी बहनों को परेषान किया करता और जब वे उसे पकड़ने वज़ झी वह खुती नाली में उतर पड़ता है और शैवानी से मुस्कराता तथा उनकी ओर मुंह बनाता क्योंकि वह जानता था कि वे उसे नाली में नहीं पकड़ेगी। 'उसे शानत करने का अन्य कोई उपाय न देख, उसकी माँ था कि व उसे नाला म नहां पकड़गा। उस शान्त करन का अन्य काइ उपाय न देख, उसका मा "शिव-चिय" कहते हुए उसके सिर पर जल जलने लगती थी। इससे वह हर बार शान्त हो जाता था।" बात्यावरधा में नरंदगाय एक वंबल प्रकृति के निगेद प्रिय बातक थे। पर आध्यासिक विषयों के प्रति उसका अद्मुत आकर्षण था। राम–सीता, शिव आदि देव विग्रहों पर प्रयान केन्द्रित करने का खेल वे प्राय खेला करते थे। माँ द्वारा सुनाई गई रामायण और महामारत की कहानियों ने उन पर अभिन छाप डाल् थी। साहस, परदु:ख कातरता और भ्रमणशील सन्यासी जीवन के प्रति तीव्र आकर्षण उनका सहज स्वभाव 🤞

1876 ई. में नरेन्द्र ने कलकत्ते के प्रेसीअंसी कालेज में दाखिला लिया। फिर एक वर्ष बाद जनरख एसेम्बलीज इन्स्टीट्यूशन में दाखिला लिया। इसी कॉलेज के प्राचार्य तथा अंग्रेजी साहित्य के प्राच्यापक

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osure of A, denoted by δ^* -cl(A) and the largest δ^* -open set in A is called δ^* -interior of A, denoted by δ^* -

Dit(A).

@ 2019 JETIR June 2019, Volume 6, Issue 6 www.jetir.org (ISSN-2349-5162) SILKY NORMAL SPACES IN TOPOLOGICAL SPACES

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2018-19

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Abstract. The aim of this paper is to introduce and study a new class of normal spaces, called silky-normal spaces. Interrelation arrong some existing variants of normality is discussed and characterizations of fuser variants are obtained. We also proved that silk normality is a supediacial property and it is in electrical property with research provide the second structure of the second structure and some factorizations of normality in presence of some lower separation axions are given.

Key words and phrases: a closed and ô-closed sets; silky normal, quasi normal, sofily normal, sofily reg 2010 AMS Subject classification: 54(1)15

1. Introduction

2. Preliminaries

Throughout this paper, spaces (X, 3), (Y, o), and (Z, Y) (or simply X, Y and Z) always mean topological spaces on which no separation asymmet assumed unless explicitly stated. Let A be a subset of a space X. The closure of A and interior of A and interior of A and interior of A mediated by cl(A) and in(IA) respectively. A subset A is said to be **routenen** (resp. **requent** closure) of A and interior of a single stated. Let A be a subset of a single closure of A and interior of a single close of the closest of A subset A is said to be **routen** (resp. **requent** closed). If (A) is the **b**-closer of A which contains all 0-limit points of A. set A is 6-closed if A = 6-closer of A which contains all 0-limit points of A. set A is 6-closed if A = 6-closer of A which contains all 0-limit points of A. set A is 6-closed if A = 6-closer of A which contains all 0-limit points of A. set A is 6-closed if <math>A = 6-closer of A which contains all 0-limit points of A. set A is 6-closed if <math>A = 6-closer of A = 0-closer of A

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0 Where none of the implications is reversible as shown by [6]. JETIR1906T28 Journal of Emerging Technologies and Innovative Research (JETIR) www.jetir.org 233 ai Vigyan Shodh Patrika

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HUMAN AND SOCIAL DEVELOPMENT APPROACH IN PRESENT HIGHER EDUCATION SYSTEM IN INDIA

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Introduction :-

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SISCUSE.

Education builds character, contributes of human capital needs higher investments on ocial sector, which leads to higher growth of Nation

Our great Religion, culture, Ideology and great Religion books like Ved Purana and thihasa have laid great stress on education and have shown characters that contributed to the growth of the Nation. Lord Rama is a Great Example of reputed character and immense health, which made Him contribute a great deal for the rule of Rama Rajya - a perfect democracy linked to efficient development of the State . Even today His rule and His State. Ayodhya is a model being pursued through with the help of modern science and technology. Education has Played a positive role in human development.

Mahatma Gandhi ji very clearly and correctly wrote that education is the strong base for building a strong character social culture as well as strong India. He emphasized.

basic education "to all, so that people

Samaj Vigyan Shodh Patrika / 167

can live a happy life living only in villages, avoiding migration to cities. Moreover he advised government to educate women who are the main pillars of society. Swami Vivekananda wanted to strong man (women also included) with strong mind and strong heath, so that India could become a strong and wealthy Nation in the world. He, in particular, wanted to promote women's education in the entire Nation. He advocates universities of education and health in India so that Nation can built with the efficient human resources. The core components of human development are: education and health

Higher education, in India is gradually entering into crisis situation, facing many problems and inadequacies. Though its spread is quite rapid, its step decline in quality is equally rapid with scarcity of financial resources, proper infrastructure adequate qualified staff etc. though government is advised to allot nearly one percent of G.D.P. for higher education, government has settled at 0.8% in 2005-06 which may further Decline for want of sufficient resources. Whereas foreign countries

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β^* g-normal spaces in topological spaces

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Abstract. The aim of this paper is to introduce and study a new class of spaces, called β 'g-normal spaces. The relationships among s-normal spaces, p-normal spaces, p-normal spaces, s-normal spaces, s-normal spaces and β 'g-normal spaces are investigated. Moreover, we introduce the forms of generalized β 'g-closed and β 'g-g-enormal spaces functions. We obtain characterizations of β 'g-normal spaces, properties of the forms of generalized β 'g-closed functions.

Key Words: Π-open, β'g-closed, gβ'g-closed and β'gg-closed sets; β'g-normal spaces; β'g-closed and β'g-gβ'g-closed

2010 Mathematics Subject Classification: 54A05, 54C08, 54C10, 54D15.

1. Introduction

1. Introduction
Pormality is an important topological property and hence it is of significance both from intrinsic interest as well as form applications view point to obtain factorizations of normality in terms of waker topological properties. In 1937, Store [16] introduced the notion of generative properties in 1965, Najarad [24] introduced the notion of non-properties. In 1967, Najarad [24] introduced the notion of generative properties in topological papers, since then many modifications of generative [17] initiated the draw investigation of generative properties. In 1968, Najarad [24] introduced the notion of re-provemal spaces and obtained their introduced the notion of generative properties. In 1983, Nabel EMOINSE [1] introduced the notion of generative properties. In 1983, Nabel EMOINSE [1] introduced the notion of pre-porties. In 1983, Nabel EMOINSE [1] introduced the notion of pre-portant spaces and obtained their characterizations. In 1996, Nabel 24] introduced the notion of pre-portant spaces and obtained their characterizations. In 1996, Nabel 24] introduced the notion of generative provide states and obtained their characterizations. In 1996, Paul [29] introduced the notion of generative provide states and obtained their characterizations. In 1996, Paul [20] introduced the context of generative provide states and obtained their characterizations. In 2007, Eksti [14] introduced the context of generative provide states and obtained their generative provide states and shormal spaces and shormal spaces and shormal spaces and benerative provide states and shormal spaces and provide states and provide states and shormal spaces and benerative provide states and shormal spaces an

2. Preliminaries

In what follows, spaces always mean topological spaces on which no separation axioms are assumed unless explicitly in the analysis, $(X, \sigma) = Y(x, \sigma)$ (or simply $f: X \to Y$) denotes a function f of a space $(X, \overline{\sigma})$ into a space (Y, σ) . Let A be a subset of a space X. The closure and the interior of A are denoted by cl(A) and int(A), respectively.

2.1 Definition A subset A of a space X is said to be:

(1) regular open [32] if A = int(cl(A)).

(2) semi-open [16] if A ⊂ cl(int(A)).

(3) pre-open [23] or nearly open [13] if A ⊂ int(cl(A)).

 (4) α-open [24] if A ⊂ int(cl(int(A))).

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 Journal of Emerging Technologies and Innovative Research (JETIR)

स्वामी विवेकानन्द : हिन्दू धर्म पुर्नुद्धार विचार

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डॉ. नीत बिहारी लाल *

रवामी विवेकानन्द ने भारत में हिन्दू धर्म का पुनरूद्धार तथा विदेशों में सनातन सत्यों का प्रचार स्वामा विवकानन्द न मारत न हन्दू रुम मा प्राण्डवार प्रथा विवसा न समाप्र अपने वा वा का किया। इस कारण वे प्राच्य एवं पाश्चात्य देशों में सर्वत्र समाज रूप से अद्धा एवं सम्मान की दृष्टि से देखे

रवामी विवेकानन्द का जन्म 12 जनवरी 1863 ई. सोमवार, पौष कृष्ण सप्तमी तिथि के दिन रयामी विवेकानन्द का जन्म 12 जनवरी 1883 ई. सीमवार, पीष कृष्ण सप्तमी तिथि के दिन प्रातःकाल सूर्योदय के किंग्रित काल बाद 6 वजकर 46 मिनट पर कलकत्ता के सिमलिया मुहल्ले में अधिवक्ता विश्वनाथ दत्त और माता भुवनेश्वरी देवी की प्रथम पुत्र सन्तान के रूप में जो शिशु जन्म उसे देखकर, उस समय क्रीन सोच पाया होगा कि भविष्य में जन्म के मात्र 39 वर्ष 6 माह के जीवन में एक ऐसी भवन्तर, उस भागम गया साथ गाम रागम गामल गामल गामल गाम छात्र उम्र पत्र उम्र पत्र हाता हो। आश्चर्य जनक प्रतिमा का ऐसी महान शक्ति का –विकास होगा, जिसका प्रभाव देशकाल की मर्यादा के भीतर सीमावद्ध नहीं रहेगा।

एंसी प्रतिभा जो मिन्न-भिन्न समय के भिन्न-भिन्न परिस्थितियों में प्रले नर-नगरियों के प्राणों में रहा आगण आ गण्डानामा राष्ट्र क गण्डानामा सहस्यावया न स्वत सरम्याहस्य क प्राण न मानव आत्मा की शारवत महिमा, सत्य न्याय मैंत्री की सजीव प्रेरणा एवं निर्मय हो लोक कल्याण करने की गोगव आत्मा का सारमत गाठमा, तास्य म्याव गत्रा भा ताजाव प्रदर्भा एवं गंगम्य हा लाख वरणाण कर मध्य स्कूर्ति जगाती रहेगी। यह कमनीय कान्ति देव शिशु जब धीरे–धीरे एक प्रिय दर्शन परन्तु तेजस्वी पूरिमाशाली, शोर्य बीर्य-पराकम से पूर्ण एक नव युवक में परिणत हुआ, तब भी कोई सोच नहीं सका था कि यह नरेन्द्र नाथ दत्ता, विश्व बरेण्य "स्वामी विवेकानन्द" बनेगा।'

बालक नरेन्द्र साधक दुर्गावरण के पौत्र थे और दुर्गावरण कलकत्ता सुप्रीम कोर्ट के नामी वकील राममोहन दत्ता के सुपुत्र थे। बालक नरेन्द्र के दो अन्य माई महेन्द्र नाथ दत्ता और भूपेन्द्र नाथ दत्ता थे। रवामी विवेकानन्द की बड़ी बहन का नाम स्वर्णमयी देवी था। इनके अतिरिक्त तीन बहने थी।'

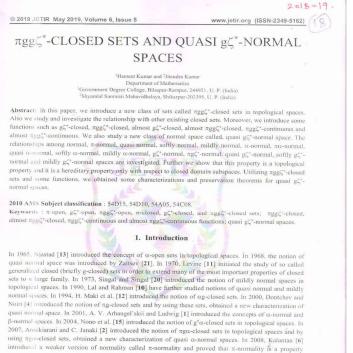
नरेन्द्र एक मधुर, प्रफुल्ल एवं चंचल बालक के रूप में बड़ा होने लगा। उसकी अदम्य शक्ति को वश में लाने के लिये दो नौकरानियों की आवश्यकता होती थी। नरेन्द्र एक नटखट एवं शरारती लड़का था जोप्राय: मेखल उठता था। वह अपनी बहनों को परेशान किया करता और जब वे उसे पकड़ने दौड़ती तो वह खुली नाली में उत्तर पड़ता है और शैतानी से मुस्कराता तथा उनकी ओर पुँह बनाता क्योंकि वह जानता यह खुला गाला न ठाउ नरुपा ह जाउ राग्राम भ पुरुषार्थम प्रचार नता जार पुरुष गांध बनाव रुप ना प्र था कि वे उसे नाली में नहीं पकड़ेगी।" उसे शान्त करने का अन्य कोई उपाय न देख, उसकी मौ 'शिव-शिव'', कहते हुए उसके सिर पर जल डालने लगती थी। इससे यह हर बार शान्त हो जाता था।' ारायनाराय , गठधा ९४ एमप्य एम पर अप अपने प्राप्त ने १९४५ वर एर वार प्राप्त ने वार वा बाल्यायरच्या में नरेन्द्रनाथ एक चंचल प्रकृति के विनोद प्रिय बालक थे। पर आध्यात्मिक विषयों के प्रति अस्ता अत्युमुत आकर्षण था। राम-सीता, शिव आदि अत्र माध्य था भर आध्यात्मक विषय के आत उसका अद्युन आकर्षण था। राम-सीता, शिव आदि देव विग्रहों पर ध्यान केन्द्रित करने का खेल वे प्राय खेला करते थे। माँ द्वारा सुनाई गई रामायण और महामारत की कहानियों ने उन पर अभिन्न छाप डाली खला करत था मा स्वरा घुमाङ गङ्गणाथभ आर महामारत का कहानथा न उन पर आमन्न छोप डाला थी। साहस, परदु:ख कातरता और भ्रमणशील सन्यासी जीवन के प्रति तीव्र आकर्षण उनका सहज स्वमाव

1876 ई. में नरेन्द्र ने कलकत्ते के प्रेसीडेंसी कालेज में दाखिला लिया। फिर एक वर्ष बाद जनरल पणि र न राज्य न मराव्या र आजजा कारण न सावला लिया। एर एक वन बाकुणनरल एसेम्बलीज इन्स्टीट्यूशन में दाखिला लिया। इसी कॉलेज के प्राह्यार्य तथा अंग्रेजी साहित्य के प्राच्यापक

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which lies between normality and almost normality. In 2009, R. Devi et al. [3] introduced the notion of "ga-closed sets in topological spaces. In 2013, Kokilavani [7] introduced the notion of gg sclosed sets in topological spaces and investigated some of their properties. In 2015, T. C. K. Raman [16] introduced the concepts of $\pi\alpha$ -normal spaces. In 2018, Hamant Kumar [5] introduced some normal spaces such as $g\zeta^*$ -normal, $\pi g\zeta^*$ -normal, $\pi g\zeta^*$ -normal, and the relationships among these normal spaces are investigated.

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STUDIES OF SOME SOIL HEALTH PARAMETERS OF NAAS Rating - 4.46 Scientific Journal Impact Factor - 6.736 DISTRICT BAREILLY, U. P. (INDIA) Rajeev Kumar Yadav and Nisha V

ABSTRACT

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<section-header><text><text>

(Key words: Soil constituents, water holding capacity, texture)

INTRODUCTION

The District Barcilly forms a part of Rohilkhand division, is located in the north western part of U.P. and like between hittide 280 01° and 280 54° north and longitude 780 55° and 790.47° east. Its maximum length from north to south is about 96 Km and breadth from east to west is about 75 Km. For the administrative convenience the Bareilly district has been divided into six thalis and first, Damkhoda, Shergath), Tahshi-Meerganj (Blocks-Baheri, Damkhoda, Shergath), Tahshi-Meerganj (Blocks-Meergan), Fatebagath West), Tahshi-Meerganj (Blocks-Meergan), Fatebagath West), Tahshi-Maduyan), Tahsil-Nawabganj (Blocks, Rammagar, Majtgawan), Tahsil-Nawabganj (Blocks, Banaya, Acording to the classification followed by the State gli survey organisation, the source of the district can be classified into three major groups based on its texture and L. Asstr. Professor, PG Dentr of Botary, Barilly-Challang 10 The District Bareilly forms a part of Rohilkhand

al

composition characteristics. Bureilly Type-1 (Tarai stoils), Bareilly Type-2 (Khadar or low-fand soils), Bareilly Type-3 (Upland Bangar soils). These Soil constituents are not important resource for a graciculture. Besides climatics conditions, the texture and depth of the soil, nutries of an analytic straining of the soil particles and porces which would aggregation. These characters show the initiations of root growth, seeding development and transfer of water which the soil particles. Various size of particles form mineral proves and soil soil size, the soil particles may be gravely, soils and character solve of soil particles below 2 mm in diameter is known as the physical properties of soil and dividential component of soil particles below 2 mm in diameter is known as thereine the physical properties of soil and dividential.

Asstr. Professor, P.G. Deptt. of Botany, Bareilly College, Bareilly, 243005, U.P. India Asstr. Professor, P.G. Deptt. of Botany, Govt. Degree College, Bilaspur, Rampur, 244921, U.P. India

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	Plants of Bilaspur Town, District
Rampur (U	Jttar Pradesh)
Nish	a Verma*
Author's Affiliation: Department of Botany	*Corresponding Author: Nisha Verma
Government Degree College, Bilaspur, Rampur, Uttar Pradesh 244921, India	Department of Botany Government Degree College, Bilaspur, Rampur, Uttar Pradesh 244921, India
	E-mail: nisha6oct@rediffmail.com
	Received on 29.03,2018,
	Accepted on 31.08.2018
Abstract	- Me
one or several plants or plant parts in the been used as a source of medicine by man- some specific power to certain plants wh life. The present study was carried out amore well as medicinally important plants. Bilas Total 22 plants belonging to 18 families medicinally important. These are Aegle m Catharanthus roseus. Curcuma longa, C bengalensis, Ficus religiona, Ficus viren Mangifera indica, Melia azadirachta, Mu arbor-tristis, Ocimum sanctum, Oryza sati peruviana.	as festivals with scientific background and use in ceremonies. The various parts in the scientific operation of the science of
INTRODUCTION	
(eligion, customs, myths, languages, culture etc. eccientific background and use one or several pla parts of plants have been used as a source of med Badoni 2009, Mehra et al. 2014, Kumaran and Cita uman culture, customs, religious rites, and m	y the people. India is known for its diversity like Most of the people celebrate religious festivals with ents or plant parts in their ceremonies. The various licine by man from ancient to modern esti (Bisht and raw 2015, Truyen et al. 2015, Bajpai et al. 2016). The raw 2015, Truyen et al. 2015, Bajpai et al. 2016. The sytha, folk tales and folk songs, food as well as fluenced by the plants (Badoni and Badoni, 2001,

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2018-19

CUSCUTA REFLEXA : A PARASITIC MEDICINAL PLANT

Nisha Verma' and Rajeev Kumar Yadav' ¹Department of Botany, Govt. P.G. College, Bilaspur (Rampur), India ¹Department of Botany, Barelly College, Barelly (Uttar Pradesh), In E-mail : rishahoet@rediffmail.com.riger/votany@jrediffmail.com that id

Abstract

Destruct Grassist reglexa is an extensive leafles, parasitic climber belong to the moving glorp family. Convolvational, it is a conversibility of the second transformer and transformer and the second the balance of conversibility of the second transformer and the second transformer and the conversibility of the second transformer and the second transformer and the conversibility of the second transformer and the second transformer and the second conversibility of the second transformer and the second transformer and the second transformer and the second the second transformer and the second the second transformer and the second transformer and the second transformer and the second the second transformer and transformer and the second transformer and transformer and transformer and the second transformer and the second transformer and transformer and transformer and the second transformer and the second transformer and transformer and transformer and transformer and transformer and the second transformer and transformer and transformer and transformer and transformer and transformer and the second transformer and transformer and transformer and transformer and transformer and transformer and the second transformer and transformer and transformer and transformer and transformer and transformer and the second transformer and transformer

Key words : Cuscuta reflexa, parasitic herb, medicinal herb, ethenomedicinal value.

Introduction

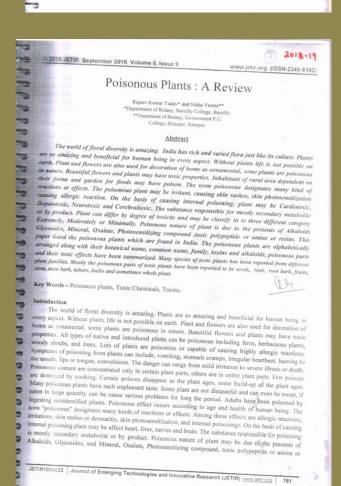
Plant Archives Vol. 18 No. 2, 2018 pp. 1938-1942

Introduction Curcular argitera is an extensive leafless, parasitic convolvalaceae (Story et al., 1958), It is yellowish green and thread like twinning herb and tangled mass covering the host plant. Cuscuta is found at the temperate and tropical region of the world with huge species diversity in tropical and sub tropical regions. It occurs throughout the India. This species is common over the northerne region of country. Bengal plains, Western ghats, Celyon, Satarn Utrarskinnd (Inamdar et al., 2011). It is also found in Utrarskinnd (Inamdar et al., 2011). It is also found in (Nandkarni, 2002). It is tab (Souron is Armabel (Inmontal (Nandkarni, 2002). It is tab (Souron is Armabel (Inmontal twise), Akashwell (Skytwinner), Swamlata, Akakhilata, Other names include Hellweed, Deviligat, Begger weed,

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Stranglelare, Scald weed, Dodder of thyme-dodder Lesser dodder (Rai et al., 2016), Dev Witch's hair and love vine (Saih et al., 2016). It chlorophyll and cannot make its own fo photosynthesis. The platt is tatched to variou shruhs, herbs and affect commercially valueb (Kanade and Gham, 2010). It is parasite on a wid-of platts including a number of agriculture and hor-crop species. The common host plants are *Ae hispida* (Euphrobiaceae), *Adathoda* (Acanthaceae), *Alsroina scholaris* (Apocyni Annona squamosa (Annonaceae), *Golaropis g* (Asciepiadaceae), *Catharanthus* (Apocymaceae), *Catharanthus* (Apocynaceae), *Catharanthus* (Verbenaceae), *Campis radicans* (Bignonis Dalbergia sitas (Fabaceae), Dalefia si (Asteraceae), *Duranta* producer (Verbens



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Yadav Rajeev Kumar et al., IJSRR 2018, 7(4), 922-926

Available online www.ijsrr.org 155

International Journal of Scientific Research and Reviews

A Check List of Weed Plants from Bareilly College, Bareilly Campus, U.P. India

Yadav Rajeev Kumar1" and Verma Nisha1

Department of Botany, Government P.G. College, Bilaspur, Rampur, (U.P)-244921

ABSTRACT

search article

Biodiversity of Bareilly district is very rich and also full of several types of medicinal, omamental, timber yielding, road side woody as well as weed plants due to its situation on foot hills of Uttrakhand Himalayan region and the glory of district Bareilly College flourished with pretty omamental plants, trees, shrubs and herbs but entire year, a rich flora of weed plants are also available to attention, therefore present study carried out for assessment of weed families and plants with their common names in the college campus in last months of year 2017. On the basis of regular survey of campus, a check list of weed plants has been prepared and plants classified under herb, under shrub, under-tree, tree categories in this work. As far as possible the important samples of the weed plants and their specimens were collected from their natural condition. Every plant specimen has been pressed and processed for herbarium preparation and identified at the Department of Botany, Bareilly College with the help of authentic literature. In situ pictures and plant specimens of every reported weed collected and arranged at the deptt. of botany. Sixty five weed plants belonging to twenty three families have been studied for record their wide range.

KEYWORDS: weeds, flora, Botanical name

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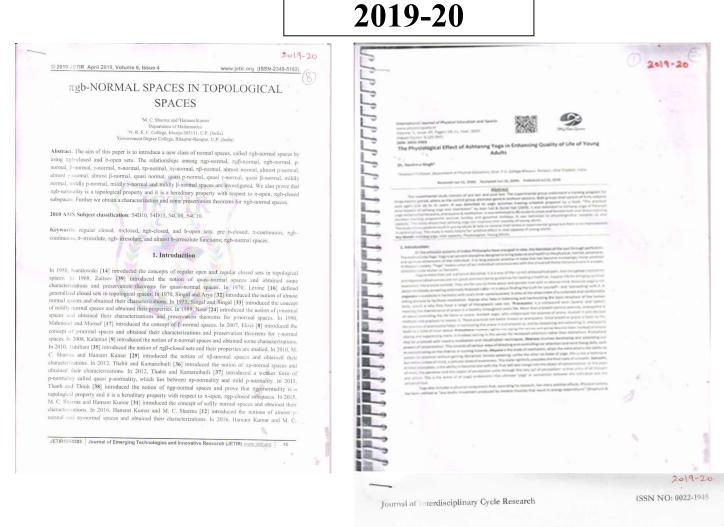


Agrochemicals and Soil Degradation

Nisha Verma

India is an agricultural country. About seventy percent of our population depends on agriculture. One-third of our National income comes from agriculture. Our economy is based on agriculture. The development of agriculture has much to do with the economic welfare of our country. There are two main crop seasons, namely kharif (May-October) and rabi (October-April). The major kharif crops include paddy, sorghum, pearl millet, maize, cotton, sugar cane, soybean and groundnut, and the rabi crops are wheat, barley, gram, linseed, rapeseed and mustard. With its good range of climates and soils, India has a good potential for growing a wide range cf horticultural crops such as fruits, vegetables, potato, tropical tuber crops, mushrooms, ornamental crops, medicinal and aromatic crops, spices and plantation crops. Food grain (cereals and pulses) crops dominant over all cultivation. The country has a diverse landscape and a climate varying from the areas with highest rainfall such as Mawsynram near Cherrapunji (Meghalaya) to the driest parts of western Rajasthan with negligible rain and from a hot and humid southern peninsula to the snow bound Himalayan Mountains. The climate of India has four seasons: winter (January-February), a hot summer (March-May), rainy

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पर्यावरणः बड़ी समस्या कारगर समाधान

डॉ० अवतार दीक्षित (असि० प्रो० वाणिज्य)

राजकीय स्नातकोत्तर महाविद्यालय,

बिलासपुर (रामपुर)

कड़ाके की ठंड से जनजीवन बेहाल हुआ। जीवन का हर पहलू इसके प्रतिकूल असर से हलकान रहा। रिकॉर्ड टूटे। मौसम विभाग बताता है कि 119 साल पहले ऐसा जाड़। पड़ा था। केवल सर्दी की बात नहीं है। गर्मी और बरसात के मौसम में भी ऐसे ही रिकॉर्ड टूटते है। कम समय में अधिकाधिक बारिश का और गर्मी में दिनोंदिन रिकॉर्ड तोड़ता पारा। इस हाड़ कंपाने वाली संदीं की तमाम वजहों में से ग्लोबल वार्मिंग भी कारक माना गया। वैज्ञानिकों ने सिद्ध कर दिया है कि मौसम के सहज रूप-रंग में आई ये विकृति ग्लोबल के चलते ही है। वे इसका इलाज भी सुझाते हैं। तमाम उपायों में घरती को फिर से उसके गहने यानी हरियाली से आच्छादित करना इसका कुदरती कारगर समाधान है। साल 2020 की पूर्व संध्या पर इस दिशा में खुशखबरी भी मिली। पिछले दो साल में देश के वन क्षेत्र में पांच हजार वर्ग किमी की वृद्धि हुई है। देश का 21.67 फीसद हिस्सा हरियाली से आचछ।दित हो चुका है। पेड़ों के तनों में कार्बन डाईऑक्साइड सोखने की अद्भुत क्षमता होती है। हरियाली के अमाव में यही कार्बन उत्सर्जन वायुमंडल में जाकर मौसम को गड़बड़ा रहा है। दुनिया के कई देशों में जंगल तेजी से काटे जा रहे हैं, भारत से इस आशय की खबर राहत देती है। जलवायु परिवर्तन को लेकर तय वैश्विक लक्ष्यों को हासिल करने में भारत हमेशा संजीदा रहा है। हमारी संस्कृति-सभ्यता प्रकृति को ईश्वर का दर्जा देती है। जलवायु परिवर्तन के मोर्चे पर दूसरे देशों के लिए भारत मिसाल बनता दिख रहा है। वे हमसे सीख सकते हैं कि अपनी परंपरा से प्रकृति और पर्यावरण कैसे बचाए जा सकते हैं। नया साल 2020 का पहला सप्ताह है। ये संकल्प सप्ताह के नाम कि घरती की हरियाली को कम नहीं होने देंगे और इस साल कम से कम एक पौधा लगाकर पेड़ बनने तक उसकी देखभाल करेंगे।

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Page No:1371

ii-regular Spaces in Topological Spaces

2019-20

¹Hamant Kumar and ²M C Sharma Department of Mathematics In Degree College, Bilangur-Rampur, Uttar Pradesh, India ²N R E C College, Khurja, Utar Pradesh, India

m of this paper is to introduce and study a new class of spaces, namely liv-regular spaces by using liv-joen sets among regular, strongly repregular, almost regular, softly regular, weakly regular, aregular, s-regular ar are investigated. Also we abtain some characterizations of ii-regular spaces, properties of the forms of gil n theorems for ii-regular spaces

rds: 11-open sets: fi-regular, s-regular, almost regular and sofily regular spaces; gil-closed un

2010 Mathematics Subject Classification: 54C10, 54D10.

nnal of Mathematics Trends and Technology 173-day, 10,14445/22315373/DMTT-V66111P513

1. Introduction

1. Introduced the concept of somi-open sets in topological spaces. O. Njaztal [10] introduced and studied the rotion of or-open size. M. K. Singal and S. P. Arya [12] introduced two new classes of regular spaces, samely almost regular and weakly regular. S. M. Macharon and R. F. Pranda [18] defined a new classes of regular spaces. Called vergalar. S. S. Brechnill [11] introduced and studied the notion of oraginal spaces. C. Samma, P. Samma and M. Singh [11] introduced are verticated in the other of oraginary spaces. The space studies are verticed by the space studies of the space studies the space studies of the space studies of the space studies of

2. Preliminaries

ighout this paper, spaces (X, τ) , (Y, σ) , and (Z, γ) advays mean topological spaces on which no separation axioms are ted unless explicitly stated. Let A be a subset of a space X. The closure of A and interior of A are denoted by e(A) and

(ii) $A \subset cl(A \cap G)$ (iii) int(A) = G. 2.2 Remark. We have the following implications for the properties of subsets open \rightarrow α -open \rightarrow s-open \rightarrow ii-open COCO This is an overs access article under the CC BY-NC-ND lis

Jour Pl Sci Res 36 (1-2) 39-47 2020

Ultrasonic Assessment of Refined and Unrefined Mustard Oils

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This paper presents an ultrasonic method to measure the physico-chemical properties of mustard oil. This oil has a distinctive pungent taste, characteristic of all plants in the mustard (Brassicaceae) family,1 Over last decade less work has been done in evaluation of physico-chemical for a wide variety of mustard oil using ultrasonic technique. Ultrasound can be used to determine the dynamic rheology and composition of oils, the oil contents.² Mustard oil has been ultrasonically assessed because of it has an important implication in spread ability and consistency of fatty materials. Ultrasonic velocity and attenuation measurements have useful in investigations of structures of oils and interactions between the molecules.3 The ultrasonic velocity (v), density (ñ), acoustic impedance (Z), adiabatic compressibility (β_{ad}), free length (L_f) have been measured at fixed frequencies, 3MHz, in mustard oils. Mustard oils have characterized for specific gravity, ash content, iodine value, acid value, saponification value, peroxide value, free fatty acid, and refractive indices using standard methods.⁴ Low power ultrasound [LPU] in the food industry is as an analytical technique for providing information about the physicochemical properties of foods, such as composition, structure and physical state are responsible for changes in acoustical parameters.⁵⁶ Physical properties of edible oils depend primarily on composition and temperature. The influences of temperature on physical-chemical properties are analyzed so that the refined oils and other exotic varieties have arrived recently. Mustard oil is best when consumed in its raw form known as 'kachchi ghani'. "Our forebears have used mustard oil for centuries. A comparative study of different brands of mustard oil has shown in present paper.

Key words: Ultrasonic investigations, Mustard oil, Physico-chemical properties, Fatty acids

1. INTRODUCTION

Mustard oil has become an integral part of human diet in India. It is widely consumed in lipid source for everyday food product as they provide characteristic nutrition, flavor and textures to foods primarily in north and east India for centuries and therefore, an ultrasonic study in Mustard oil has been a subject of study of many research scientists. Less work has been made on the various thermo acoustic properties of mustard oil. The present study is an attempt to the study of intermolecular interactions in mustard oil using ultrasonic method. Though, many methods have been used in compositional study of fats and oils, but ultrasonic method provides a nondestructive, non-invasive and also a precise measurement technique.⁷ During extraction,

DOI: https://doi.org/10.32381/JPSR.2020.36.1 2.42

purification and usage oils undergoes a variety of processing operation. Behaviors of oils under real processing condition from molecular level have studied so that its purity, adulteration, shelf life may be detected. There are two important reasons of its parametric studies, firstly for nutritional value and secondly for bio fuel product. In this article its application for the characterization of oils assessed using ultrasound. Different physical and chemical parameters of mustard oil have been used to monitor the compositional quality of oils. These physicchemical parameters include iodine value (IV), saponification value (SV), viscosity, density (p)and peroxide value (PV). The ultrasonic parameters are velocity (v), acoustic impedance (Z), adiabatic compressibility (β_{ad}), free length (L_q).^{8.9}

www.jetir.org (ISSN-2349-5162) **II-NORMAL SPACES IN TOPOLOGICAL SPACES**

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Abstract. The aim of this paper is to introduce and study a new class of spaces, called ii-normal spaces. The relationships among β^{1} g-normal, s-normal, a contral, and and an analysis of phases, satisfy the phases are investigated. Moreover, we introduce the forms of generalized ii-closed (briefly gii-closed) functions. We obtain characterizations of ii-normal spaces, properties of the forms of generalized ii-closed (briefly gii-closed) functions. closed functions and preservation theorems

Key Words ii-open, gii-closed and iig-closed sets; ii-normal, s-normal, α-normal and β*g-normal spaces; iid and ii-gii-closed functions

2010 Mathematics Subject Classification: 54A05, 54C08, 54C10, 54D15.

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1. Introduction

Normality is an important topological property and hence it is of significance both from intrinsic interest as well as from applications view point to obtain factorizations of normality in terms of weaker topological properties. In 1937, Stone [21] introduced the concept of regular-open sets. In 1963, Levine [13] introduced the uniting of emission entered a distinct the distinct the set of the set of the set. notion of semi-open sets and obtained their properties. In 1965, Njastad [19] introduced the notion of α -open notion of semi-open sets and obtained their properties. In 1965, Njastad [19] introduced the notion of α -open sets and obtained their properties. In 1970, Levine [14] initiated the investigation of g-closed sets in topological spaces, since them many modifications of g-closed sets were defined an investigated by a large number of topologists. In 1978, Mahedwari [15] introduced the notion of β -open sets. In 1987, Bhattacharyya and Lahiri [6] introduced the concepts of sg-closed sets. In 1990, Arya and Nour [3] introduced the concepts of ga-closed sets. In 1994, Maki et al. [16] introduced the notion of β -open sets. In 1987, Bhattacharyya and Closed sets. In 1994, Maki et al. [16] introduced the concepts of ga-closed sets. In 2007, Klaci et al. [17] [8] introduced the notion of γ-normal spaces and obtained their characterizations. In 2007, Latern introduced the notion of γ-normal spaces and obtained their characterizations. In 2008, Maki et al. [17] introduced the concepts s⁴g-closed sets and s⁴-normal spaces, and obtained their characterizations. In 2009, introduced in concepts s⁻g-closed sets and s⁻-normal spaces, and obtained their characterizations. In 2017, Benchalli [5] introduced the notion of α -normal spaces and obtained their characterizations. In 2017, Sharma and Hamani [20] introduced the concepts of β° g-closed sets and β° -normal spaces, and obtained their characterizations. In 2019, Hamant [11] introduced the concepts of §*g-normal spaces, and obtained their characterizations. In 2019, Mohammed and Abdullah [2] introduced the concepts of in-open sets and obtained their properties. In 2019, Hamant [10] introduced the concepts of ii-separation axioms and ii-closed functions.

2. Preliminaries

In what follows, spaces always mean topological spaces on which no separation axioms are assumed unless explicitly stated and $f: (X, \Im) \to (Y, \sigma)$ (or simply $f: X \to Y$) denotes a function f of a space (X, \Im) into a space (Y, σ) . Let A be a subset of a space X. The closure and the interior of A are denoted by cl(A) and int(A).

2.1 Definition. A subset A of a space X is said to be:

(1) regular open [21] if A = int(cl(A)).

(2) semi-open [13] if A ⊂ cl(int(A)).

 $\frac{(3) a \text{-open } [19] \text{ if } A \subset \text{int}(cl(int(A))).}{\text{IFTIR2008105} \quad Journal of Emergin}$

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पर्यटन की दृष्टि से ओरछा का ऐतिहासिक धरोहर

के रूप में सांस्कृतिक महत्व

डॉ0 नीत बिहारी लाल *

ओरछा भारत के हृदय स्थल बुन्देलखण्ड़ क्षेत्र में आता है। यद्यपि ओरछा मध्यप्रदेश के टीकमगढ़ आराध भारत के इदेव स्थले कुर्दलेखण्ड क्षेत्र में आता है। यथापी आराज मध्यप्रदेश के टीकमाए तिले में सिवत है परन्तु डोंसी सो 20 कि.मी. दक्षिण पूर्व दिशा में देखान मदी के दाष्ट्रिने कितने पर स्थित है। ओराज के उत्तर में जिला शिवपुरी तथा पश्चिम उत्तर प्रदेश के ललितपुर तथा पूरव में डोंसी की तीथाएं पूर्वी हैं। डोराज के यू-माग में लगमग समान प्रकार का सांस्कृतिक पश्चिम देखने को मिलता है। इस सेय के गिवारियों में मामा कला च संस्कृति का एक सूत्र प्रतीत होता है। जुन्देलखण्ड का आधिकतर विस्तार रवीकार करने वाले प्राय क्षेत्र उत्तर में जमुता, दक्षिण में नर्मदा, पूर्व मं डींसा तथा पश्चिम में घमल से आवृत मानते हैं। यह मान उत्तरों अक्षांश 230 – 45' तथा 260 – 50' और पूर्व देशालप 720 – 55' तथा प्रथल के मध्य सिवन है क देशान्तर 770 — 52' तथा 820 के मध्य स्थित है 120

इस भूंगाग का नाम बुन्देलखण्ड लगभग 15वीं शताब्दी ई0 में पड़ा माना जाता है।1 प्राचीनकाल में ओरछा क्षेत्र चेदि राज्य के अन्तर्गत आता था 12 बुन्देलखण्ड क्षेत्र में ओरछा की सीमा निर्धारण के विषय में एक महत्वपूर्ण लोकोक्ति प्रचलित है |3 इस लोकोक्ति के अनुसार होशंगाबाद सागर तथा नर्मदा तक का भाग बुन्देलखण्ड में सम्मिलित था।

भौगोलिक विशेषताओं की दृष्टि से ओरछा की प्रकृति बहुत ही विविधतापूर्ण है। ओरछा की जलवायु अति उष्ण तथा शीत है। प्रतिकूल जलवायु के कारण इस क्षेत्र में मानतून सामान्य ही रहता है तथा कमी—कमी सामान्य से अधिक वर्षा मी होती है। पथरीली मिट्टी होने के बावजूद यहां पर चावल गेहूँ, कपास, दाल तथा तिलहन यहां की प्रमुखता से होते हैं।

बेतवा नदी के किनारे बुन्देला शासक रुद्र प्रताप द्वारा 16वीं शताब्दी में स्थापित नगर ओरछा पर्यटन एवं सांस्कृतिक क्षेत्र के अतिरिक्त धार्मिक महत्व का स्थान भी है। जहां ओरछा में ऐतिहासिक महत्व के स्मारक हैं, वहीं ओरछा के मन्दिर भी पर्यटन के धार्मिक महत्व को बढ़ाते हैं। पर्यटन की दुष्टि से ओरछा अत्यन्त महत्वपूर्ण स्थल है।

ओरछा के पर्यटन स्थलों में जहांगीर महल, राजमहल, रायप्रवीण महल, लक्ष्मी नारायण मन्दिर, वर्तुगुज मन्दिर, ओरछा शासकों की छत्रियां, दीवान हरदौल का वबूतरा व शहीय स्मारक राज्य के संरक्षण में है।1 हनुमान मन्दिर द जानकी मन्दिर के संरक्षण की व्यवस्था एक न्यास के पास है।2 सुन्दर महल के पुरावशेष ही रह गये हैं।

16वीं शताब्दी में बुन्देला शासकों द्वारा स्थापित ओरछा नगर ऐतिहासिक एवं धार्मिक स्थलों के अतिरिक्त नैसर्गिक सौन्दर्य के लिए भी महत्वपूर्ण है। यहां की बेतवा नदी का किनास एक विश्वास सौन्दर्य लिए है। यहां पर आकर पर्यटकों का मन प्राकृतिक सौन्दर्य तथा ऐतिहासिक एवं धार्मिक स्थलों

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JOURNAL OF CRITICAL REVIEWS A METHOD ON THE FALSE DISCOVERY DISTRIBUTION FOR CONTROLLING QUANTITIES Dr. Shivom Sharma¹, Dr. Vipin Kumar², Dr. Abhinav Saxena³, Kamal Kumar Gola⁴ nt Professor, Department of Mathematics, Government P. G. College, Bilaspur, Rampu Uttar Pradesh, India shi Mathematics, Faculty of Engineering, Tea Moradabad, Uttar Pradesh, India drvipink.engineering@tmu.ac.in ent of Mathematics, Faculty of Engineering, Teerthanker Mahav Moradabad, Uttar Pradesh, India drabhinav.engineering/@tmu.ac.in nputer Sciences, Faculty of Engine Moradabad, Uttar Pradesh, India kkgolaa1503@gmail.com

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In this paper, we have proposed a confidence envelope for false discovery control, when testing heats, we develop a method for finding pavalae distribution. We construct a confidence envelope for in Discovery Proposition processes. In these envelopes we drive confidence thresholding for controll-lites of the distribution of False Discovery Proportion as well as controlling the number of false discover investigate method for certainging the powel distribution. KEYWORDS: FDR. P-value distribution, FNP, BH method

L INTRODUCTION

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ABSTRACT

2020-21

INTRODUCTION Anong the many challenges rules by the analysis of large data sets is the problem of multiple testing titings it is not unusual to text housands or even millions of loppidness. Exampless include functions bornace imaging microarray analysis in genetics and source detection in astronomy. Traditional methods the torage control of familywise error. Often have low power and can be unddy conservative in many applications. Benjamica and Hochberg pioneed is alternative. Define the false discovery properties (FDP) in the expect mitter of false rulescitomi decides by the number of rejections. The false discovery rune (FDR) in the expect on a target level. The same paper domenstrated that the Benjamica and thorhberg proceedars is of wordhit than traditional method that control family wise error. Recently there has been much inducted the B1 a datas of dependent tests. Bayesien proposed a new FDR method which has higher power than the orights.

method. In this paper we can be extended to the sparse regime where the fraction of alternative tends to zero, we develop some large theory for FDR's and presents new method for controlling quantities of the fails discovery distribution. An essential idea is to view the proportion of the false discovery as a stochastic process indicates by the p-value threshold. The problem of choosing a threshold then becomes a problem of controlling a stochastic process. Although this auxiliarity cores is not observable, we will show that its ammable to inference.

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ON WEAKLY Δ-NORMAL SPACES IN TOPOLOGICAL SPACES

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Abstract. The aim of this paper is to study the class of weakly A-normal spaces. The relationships among A-Austract: The aim of this paper is to study use class on weakly informating supports in the process for strong and provide the strong and the provided strong and the stron ralized &-closed and almost generalized &-continuous functions

Key words and phrases; δ-closed sets; weakly Δ-normal, silky normal, guasi normal, softly normal and ii-

2010 AMS Subject classification: 54A05, 54C08, 54C10, 54D15.

1. Introduction

1. Introduction
In 1968, the notion of quasi normality is a weaker form of normality was introduced by Zaitsev [28], In 1970, the concept of almost normality was introduced by Sindpair and Singal 21] independently. In 1973, the notion of mild normality was introduced by Sindpair [22] and Singal and Singal [23] independently. In 1978, Maheshwari and Prasid [15] introduced a new class of normal spaces is called s-normal spaces in topological spaces and obtained their characterizations. In 1990, Latan Rahman [13] further investigated the notions of quasi normal and mildly normal spaces. In 1998, the concept of nearly normal space is a weaker form of normal space was introduced by Mukherjee and Debray [17]. In 2000, Dontherv and Noiri [6] introduced the notion of rag-closed sets and by using these sets, obtained a new characterization of quasi normal space. In 2007, Ekici [8] introduced the concept of n-normal spaces in topological spaces and obtained their properties. In 2008, renormal space sis called a-normal space is called d-normal space is is called d-normal spaces in topological spaces and obtained their properties. In 2008, networklin and weakly functionally d-normal spaces are called d-normal weaks of normal spaces is called d-normal spaces. In 2009, Benchall and weakly functionally d-normal spaces are considered and interrelation among these variants of normal spaces are considered and middly normal spaces in topological spaces and obtained their dynarces in topological spaces and obtained spaces in topological spaces and obtained spaces in topological spaces and normal spaces is called d-normal space spaces in topological spaces and obtained a new class of normal spaces in consult weakly functionally d-normal spaces is called d-normal spaces in topological spaces and obtained a new class of normal spaces is called spaces in topological spaces and obtained their characterizations. Recently, Kumar [12] introduced a new class of normal spaces is called space space is subsidined their characterizat

2. Preliminaries

Throughout this paper, spaces (X, 3), (Y, σ), and (Z, γ) (or simply X, Y and Z) always mean topological spaces on which no separation axioms are assumed unless explicitly stated. Let A be a subset of a signer X. The closure of A and microi of A are denoted by (c)(A) and in(A) respectively. A subset A is station to be regular open (resp. regular closed) if A = int(c)(A) (resp. A = c)(int(A)). The family of regular open resp. regular closed) sets of a space X is denoted by R(O)(A) (resp. RC(X)). The finite union of regular open sets is said to be **requered**. The complement of a π -open set is said to be **re-open** [28]. of regular open sets. The complement of a δ -open set is said to be δ -closed (or A subset A is said to be δ -closed

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कोविड–19 एक वैश्विक महामारी : चुनौतिया एवं अवसर

डा० अवतार दीक्षित (असिस्टेंट प्रोफेसर वाणिज्य) राजकीय स्नात्कोत्तर महाविद्यालय बिलासपुर (रामपुर) मो0- 9411007679

शोध सारांश

वायरस यानी जहर। लैटिन भाषा में इस शब्द के यही मायने है। ये सूक्ष्म विषाणु जीवित कोशिकाओं में पहुंचकर अपनी संख्या आश्चर्यजनक रूप से बढ़ाकर उन्हें संक्रमित कर देते हैं। 1892 में रूसी वनस्पति शास्त्री दमित्री इवनोवास्की द्वारा लेख में एक एैसे गैर बैक्टीरिया पैथोजेन का जिक्र करने और 1898 में डच माइक्रोबायलोजिस्ट मार्टिनस बीजरनिक द्वारा टोबैको मोजैक वायरस का पता लगाने के बाद पर्यावरण में मौजूद लाखों वायरसों में से पांच हजार के बारे में व्यापक जानकारी पता की जा चुकी है। इन्ही वायरसों में से एक कोरोना वायरस एकदम नया है। इसकी रोकथाम के लिए शारीरिक दूरी को एक मात्र रामबाण इलाज बताया जा रहा है। जो लोग इस नियम की अवहेलना कर रहे हैं वे इंसान की खाल में समाज के लिए किसी किसी वायरस से भी ज्यादा खतरनाक हैं। कोरोना के बढते प्रकोप के बीच भारत में देशव्यापी लाकडाउन घोषित किया। विशेषज्ञों का अनुमान था कि 21 दिन के लॉकडाउन में संक्रमण काबू में आ जायेगा। इस दौरान आये अधिसंख्य मामलों में या तो ट्रेवल हिस्ट्री निकली या वे किसी संक्रमित के सीधे संपर्क में रहे। सामुदायिक संक्रमण की बात नहीं आई।

इतिहास साक्षी है। महामारियाँ जब भी आई हैं मुश्किलें लाई हैं। इन चुनौतियों के बीच इंसानी जीवन को उन्होंने और अधिक व्यवस्थित करने का काम

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Ultrasound Technology in Milk Product: A Review

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Advance Ultransound is a mechanical wave that is asselliating at a frequency local barve that of human hearing. Ultransonic waves have any frequency above 20 KHz to a statistical at a scaling and a frequency above that of human hearing. Ultransonic sparse have a statistical at a scaling of the statistical at a scaling and the statistical at a frequency above that of human hearing. Ultransonic sparse have a statistical at a scaling of the statistical at the statistical at the scale at the the statistical of the statistical at the scale at the statistical at the scale at the sca

Keywords: Ultrasonic waves, Processing, Treatment, Dairy Product, Parameters.

I. Introduct, radiaters, I. Introduct, radiaters, The customer demand, the preservation of the milk in the form of best quality. Therefore hon thermal milk processing and preservation are crucial one of the current and important methods of non-thermal milk processing and preservation is application of ultrasound wave. Hearing capacity of main is 2014, these types of sound wave called infrasonic wave. The above frequency range called as ultrasonic wave. Ultrasonuch techniques are used in milk and dairy industry. The ultrasound wave as bas save the some important enzyme, backeria, despite the fact that in this paper, the results obtained that this types of milk is a major source of essential nutrities for adults and children in India. In this paper, the results obtained that this types of milk is a major source of acoustic impedances, balk modules intermolecular free frengts specific hear capacity and thermal conductivity are calculated for different samples of milk to analyze the quality and adulteration. The ultrasonic behaviore parameters of different milk and and there there made to study ultrasonic parameters of different milk and and the view of this an attempt has been made to study ultrasonic parameters of different milk and and there and the specific thear capacity and thermal conductivity are calculated for different samples of milk to analyze the quality and adulteration. The ultrasonic techniques have been implemented is non-invasive on line measuring system. In the view of this an attempt has been made to study ultrasonic parameters of different milk and order to check the purity of milk.



Fig 1 - Ultrasonic continuous wave generator

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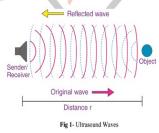
Principal, ²PhD Scholar, ³PhD Scholar ¹Department of Physics, ²Department of Physics, ³Department of Physics ¹Govt. P.G College, Bilaspur Rampur, UP, India ^{2,3}M.J.P Rohilkhand University, Bareilly, UP, India

Abstract: Mustard oil is very useful for our daily life cooking, medicines and in other useful areas mustard oil has perfect Abstract: Mustard oil is very useful for our daily life cooking, medicines and in other useful areas mustard oil has perfect physico-chemical properties for health. It has perfect composition of saturated and unsaturated faithy acids. These acids balance the cholesterol level mustard oil is widely consumed in India. For centuries but sometimes in market it addutated. So this paper focuses the study of ultrasonic velocity at different frequencies in different samples. Ultrasonic technology is a powerful technology over other traditional techniques. It is more inexpensive and capable to check more rapidly and precise measurements. In the present paper, velocity of ultrasonid was measured in pure and branded samples of mustard oil at the frequencies 1, 2,3,45. MHz Frequencies using ultrasonic multi frequency interformeter at temperature. The present study helps to understand the purity of these samples and present data will be useful to identity the adulteration in oils.

Keywords: Ultrasonic velocity, mustard oil, Frequency, Physico-chemical, Temperature.

I. INTRODUCTION

Different type's oils are very used in our life. The physico-chemical and dynamic properties of oils depend upon their applications. Vegetables oils have very important role in human diet. Among different vegetables oils mustard oil is very useful for human diet. Oils are composed of triglycerides. Mustard oil is used for cooking and also for medicines [1]. The mustard oil is good for heart Oils are composed of triglycerides. Mustard oil is used for cooking and also for medicines [1]. The mustard oil is good for heart disease due to its unique composition of monosaturated fatty acid, erucic along with other mono and polysaturated fatty acid. Mustard oil is used as muthoacterial, antifungal properties, which is used for many medicinal utilities [2]. Different varieties of techniques are used to detect the adulteration of mustard oil like X-Ray diffraction, density, refraction measurements (RJ). Nuclear magnetic resonance (NMR), Neutron scattering and differentia scanning calorimetry DSC ultrasonic technique is better than other techniques because it is more economic, efficient, convenient and capable to check the sample more rapidly. It is nondestructive and noninvasive [4]. Ultrasonic velocity study in different samples of mustand oil were carried out by several researchers and scientists to check the physico-chemical properties of oils ultrasonic studies have attracted the attention of number of scientists due to its beneficial use ultrasonic technique is is used to study the refined and unrefined expetable oil Ultrasonic velocity study in different samples of healthy and infected area of oil and it is observed the ultrasonic velocity of infected area is lower than healthy area. Variation of ultrasonic velocity of used in diffuser samples or olurasonic velocity on disposition with temperature and frequency in high viscous vegetable oil were measured and it is observed that ultrasonic velocity of used and frequency in high viscous vegetable oil were measured and it is observed that the increase of temperature.



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ADVANCE TREATMENT OF FOOD STUFF BY ULTRASOUND: A REVIEW

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²M.J.P.E.U, Barellly, UP, India Absract: Ultrasound is non-thermal food processing techniques. The sound wave having frequency greater than 20 KHz referred as ultrasonic wave. Ultrasonic with contrasonic call the sound wave having frequency greater than 20 KHz intrasound having frequencies higher than 100 KHz and Intensities below 1 Wcm². LPC case no physical or chemical alterations in properties of material through which the wave passes high power ultrasound, law power ultrasound have and energy is propagated through by which the wave passes high power ultrasound, law power as intusoidal wave and energy is propagated through which the wave passes high power ultrasound, law power as intusoidal wave and energy is propagated through when through ow/cm³ HPC is capable of altering material properties (e.g. physical and chemical and structural) when ultrasound is work travel through medium, sound is transmitted as intusoidal wave and energy is propagated through by the system. These vibrations are composed of cycles of compression and expansion moving in the media particles. When the energy reaches an optimum level an increase of pressure take place in that medium. This increase generates thousands of bubbles. Cavitation is nercease of pressure take place they high importance (SDPV) and pasks or provers 50 k Fage. Ultrasound is energy the increase that expendence that depends on the size of bubbles produced during cavitation and the speed of bubble growth. Cavitation is responsible for all ultrasound is videly used in food processing technology in preservation and extraction steps. It makes use of physical and chemical phenomenon which is very different with conventional techniques, for ofers great advantages in various fields like extraction reduce equipment size, faster response in processing, extraction control large production and less time consuming.

Index Terms: Ultrasonic wave, food stuff, processing, cavitation, and sonication

I. INTRODUCTION

I. INTRODUCTION
The sound waves which have the recurrence over the restriction of human discernibility, i.e. more noteworthy than 20 KHz alluded to an ultrasonic what wave. The upper recurrence limit init unequivocal since it is consistently expanding as new strategies are found. Ultrasonic vibrations can be created in any kind of material as vaporous. Fluid and strong. Ultrasonal is one of the arising technogies (2011). Ultrasonal is more than a strong technogies (2011). Ultrasonal innovation has shown significant davances in flood preparing over the most recent couple of years. This is owarm innovation, applied at low recurrence (Power ultrasonal in flood from sound waves going through the matirity is a strategies of the couple of years. This is owarm innovation, applied at low recurrence (Power ultrasonal in flood from sound waves going through the matirity explained in movation by viability depends on the cavitation produced by ultrasound in flood from sound waves going through the matirity which the set and the sound is another innovation in been investigated in the law with victories, yet it is as yet a work infrasonal to perform homogenization, curring extraction, innovintum been investigated in the law with victories and toporous equal and toporous (Freq and Yang et al. 2005). The utilization of the intrasonal in mix with heat permits diminishing the preparing time and has the capability of energy and financial reserve funds. Ultrasonal hardware is not difficult to work in the bandling of form and tange et al. 2005). The utilization of them structure as whole field of uses and give the client a wide assortment of data about the properties of materials being handled (strong, fluid or gass) (Powey, 1998).

II. HISTORICAL BACKGROUND

Ultrasound has been utilized for an assortment of purposes that incorporates regions as various as correspondence with creatures the location of streams in substantial structures the union of fine synthetic compounds and treatment of sickness alimost 80 years prior chamber (1937) revealed that unadulterated pensin was inactivated by sonication most likely because of cavitation Improvement in the utilization of ultrasound started in the years going before the subsequent universal conflict by the 1960 s the modern employments of force ultrasound were acknowledged. The chance of utilizing low force ultrasound to portray food sourcet was first acknowledged more than 60 years prior. In any case it is as of late that the maximum capacity of the strategy has been forured it out.



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STUDIES OF PROPAGATION OF ULTRASONIC

WAVES IN MUSTARD OIL : A REVIEW

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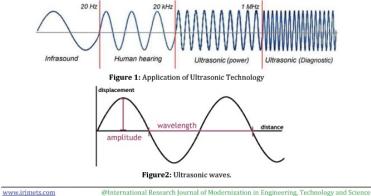
ABSTRACT

Mustard oil is very useful for our daily life in cooking which provide energy, essential fatty acids, and vitamins. It is heart friendly fatty acid and calorie free oil, low in saturated fats and high in mono saturated. It has high smoking point. So these types of oil are best for cooking as compare to other cooking oil. Mustard oil is a good combination of saturated and unsaturated carboxylic acid. Cholesterol level controlled by saturated and unsaturated acids present in mustard oil by increasing good HDL (High density lipoprotein) and deceasing LDL (Low density protein). Thus mustard oil helps to minimize the risk of cardiovascular diseases, heart attack or stroke. Ultrasonic waves are sound waves which have frequency higher than 20,000 hertz. And these types of waves have more frequency range as human hearing capacity. These waves are used in different fields like for cleaning, mixing, sonochemistry, welding and also used for characterizing the edible oils. Different techniques are used for the checking of adult rational of edible oils and for characterization of edible oils. But ultrasonic study has more advantages over other traditional techniques used in this field. Ultrasonic technique is nondestructive and noninvasive, capable of rapid and precise measurement. It is less expensive than other techniques. The aim of this review paper is study of physico-chemical properties and application of mustard oil. When using the ultrasonic waves, mustard oil has particular specific gravity, PH, ash content, iodine value, acid value, sporification value, peroxide value, cholesterol free acid, flash point, viscosity, and refractive indices using standard methods.

Keywords: Mustard oil, Ultrasonic waves, Physico-chemical properties, fatty acid, experimental review.

I. INTRODUCTION

The ultrasonic technology is a technique for the characterization of mustard oil. The ultrasonic technology is very cost-effectively, Appropriate, Malleable methodology for oil characterization in comparison to predictable method. The studies of ultrasonic in oil and liquid are very useful in understanding the nature and the strength and also physico-chemical properties mustard oil, used a traditional edible oil in most part of India for centuries is well known its utilities. The ultrasonic technology is one versatile technology that has displayed potential for processing and edible oils.



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