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							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
1	A comparative study of pointwise convergence and uniform convergence	Dr Anita mandloi	Mathematics	International journal of mathematics trends and technology	2020-21	22 31-5 373 UGC listed	https://www.ijmtjournal.org/	https://www.ijmtjournal.org/Volume-67/Issue-2/IJMTT-V67I2P512.pdf	UGC Listed
2	Extention of Fiexed point theorems Type T-Zamfirescus maping in cone metric space	Dr. S.K. Malhotra	Mathematics	Journal Ramanujan Society of Mathematics and Mathematical Science	2020-21	2582-5461	http://rsmams.org/journals/jrsmams/home	file:///C:/Users/pc/Downloads/1_8_1_1420581032_Paper%20%20EXTENSION%20OF%20FIXED%20POINT%20THEOREMS.pdf	Peer Reviewed Journal
3	Fixed point theorems for sequence of mappings in complex value metric space	Dr. S.K. Malhotra	Mathematics	Journal of Emerging Technologies and Innovative Research	2020-21	2349-5162	https://www.jetir.org/	https://www.jetir.org/view?paper=JETIR2010411	UGC Approved Journal no 63975

4	Common fixed point theorem for four self maps satisfying CLCS property	Dr. S.K. Malhotra	Mathematics	Journal of Emerging Technologies and Innovative Research	2020-21	2349-5162	https://www.jetir.org/	https://www.jetir.org/view?paper=JETIR2010410	UGC Approved Journal no 63975
5	Multi Server Fuzzy Queuing model in Dodecagonal Fuzzy number using DSW Alogorithm	Dr. S.K. Malhotra	Mathematics	International Journal of Engineering and Future Technology	2020-21	2455-6432	http://www.ceser.in/ceserp/index.php/IJEFT	http://www.ceser.in/ceserp/index.php/IJEFT/article/view/6554	copernicus
6	A Review on Assessment of Copper & Zinc contamination through vehicul emission on vegetables growing near road side	Dr. Asha Verma	Chemistry	International Journal of Innovative Research in Science, Eng. & Technology	2020-21	2319-8753	Low Processing Fee Journal in Engineering : Impact Factor: 8.118 (ijirset.com)	http://www.ijirset.com/upload/2020/december/13_cu_and_zn_NEW.pdf	Scribd
7	A Review on lead Toxicity and its adverse effects a Human Health	Dr. Asha Verma	Chemistry	International Journal of Innovative Research in Science, Eng. & Technology	2020-21	ISSN- 2319-8763 Vol. 9, Issue. 12	Low Processing Fee Journal in Engineering : Impact Factor: 8.118 (ijirset.com)	www.ijirset.com/upload/2020/december/14_LEAD_IJIRSET_Paper.pdf	Scribd
8	Heavy metal contamination in leafy vegetables grown on road side areas	Dr. Asha Verma	Chemistry	International Journal of Innovative Research in Science, Eng. & Technology	2020-21	2347-6710	Low Processing Fee Journal in Engineering : Impact Factor: 8.118 (ijirset.com)	66_HEAVY_NC.PDF (ijirset.com)	Scribd
9	Assessment of aquatic insects diversity and tophic status of kaliasote dam	Dr.Rajni Raina Wanganeo	zoology	westeyan J. of Research	2020-21	ISSN: 0975-1385	Wesleyan Journal of Research	https://images.app.goo.gl/6BRG7NNE6TS4KmU5A	UGC enlisted

10	Comparative study of turbulent nature of solar plasma during the solar cycle 23 and 24	Dr Harsha jalori	Physics	journal of emerging technologies and innovative research	2020-21	2349-5162	https://drive.google.com/file/d/1KL5ZwHu0NYIt5b-YKJy2hQ_yzCgBn6oA/view?usp=sharing	https://www.jetir.org/papers/JETIR2112521.pdf	UGC Approved Journal No 63975
11	Fixed Point Theorem in Fuzzy Metric Space using Occasionally Weakly Compatible Mappings	Dr. Rajesh Shrivastava	Mathematics	Mukt Shabd Journal	2020-21	2347-3150 Vol. IX, Issue VII, 1252-1258	Home (shabdbooks.com)	129-july2020.pdf (shabdbooks.com)	UGC Listed
12	Effect of Pollutants on Fish and Amphibian with Various Histochemical Changes.	Dr. Mukesh Kumar Napit	Zoology	<i>European Journal of Pharmaceutical and Medical Research</i>	2020-21	ISSN: 2394-3211 Vol.08, Issue ,03, pp.402-405. February.2021,	https://www.ejpmr.com/	https://storage.googleapis.com/journal-uploads/ejpmr/article_issue/1614421572.pdf	UGC Listed
13	Study of Physico-Chemical Parameters of Fish Fauna Reference to Veerangana Durgavati Wildlife Sanctuary Water Bodies.	Dr. Mukesh Kumar Napit	Zoology	<i>European Journal of Pharmaceutical and Medical Research</i>	2020-21	ISSN: 2394-3211 Vol.08, Issue ,03, pp.406-410. February.2021,	https://www.ejpmr.com/	https://storage.googleapis.com/journal-uploads/ejpmr/article_issue/1614421622.pdf	UGC Listed
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15	Study of Fish Fauna of Bundelkhand Region with Special Reference to Damoh District.	Dr. Mukesh Kumar Napit	Zoology	<i>European Journal of Pharmaceutical and Medical Research</i>	2020-21	ISSN: 2394-3211 Vol.08, Issue ,03, pp.363-366. March.2021	https://www.ejpmr.com/	https://storage.googleapis.com/journal-uploads/ejpmr/article_issue/1614420888.pdf	UGC Listed

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17	Wavelet coherence and cross wavelet analysis of Sunspot number	Dr Rakesh Saxena	Physics	compliance engineering journal	2020-21	0898-3577	http://ijceng.com/	http://ijceng.com/VOL-11-ISSUE-8-2020/	UGC care Listed/ SCOPUS
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2020-21

International Journal of Mathematics Trends and Technology
Scholarly Peer-reviewed Research Publishing Journal

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A Comparative Study of Pointwise Convergence and Uniform Convergence

International Journal of Mathematics Trends and Technology (IJMTT)
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Volume-67 Issue-2
Year of Publication : 2021
Authors : Dr Anita Mandloi
doi> 10.14445/22315373/IJMTT-V67I2P512

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APA Style: Dr Anita Mandloi(2021). A Comparative Study of Pointwise Convergence and Uniform Convergence. *International Journal of Mathematics Trends and Technology*, 83-84.

Abstract
The objective of the present paper is to compare the pointwise and uniform convergence of a sequence of functions.

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EXTENSION OF FIXED POINT THEOREMS TYPE $ST\$_{-ZAMFIRESCU}$ MAPPING IN CONE METRIC SPACE

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Volume : 8 , Issue : 1
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Archana Rajput (Department of Mathematics, Govt. Dr. Shyama Prashad Mukharjee Science and Commerce College, Benazeer, Bhopal, Madhya Pradesh - 462008, INDIA)
S. K. Malhotra (Department of Mathematics, Govt. Dr. Shyama Prashad Mukharjee Science and Commerce College, Benazeer, Bhopal, Madhya Pradesh - 462008, INDIA)

Abstract
The objective of this paper is to obtain sufficient conditions for the existence of fixed point of $ST\$_{-Zamfirescu}$ in complete cone metric spaces and we prove fixed point theorem for an extended Kannan and Chatterjea type $ST\$_{-contraction}$ mapping in a cone metric space. Our results generalize recent results existing in the literature of $ST\$_{-Zamfirescu}$ mappings in cone metric space.

Keywords and Phrases
Cone Metric Space, $ST\$_{-Zamfirescu}$ mapping, Cone normed space.

A.M.S. subject classification

Page: 1 of 1 | Words: 0 | English (United States)

News & Events

- Published issue of the South East Asian Journal of Mathematics and Mathematical Sciences, Vol. 18, No. 1, April 2022
- Published issue of Journal of Ramanujan Society of Mathematics and Mathematical Sciences, Vol. 9, No. 1, December 2021
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Title
 FIXED POINT THEOREMS FOR SEQUENCE OF MAPPINGS IN COMPLEX VALUED METRIC SPACE

Authors
 R. K. GUPTA
 S. K. MALHOTRA

Abstract
 The aim of this paper is to establish fixed point results for the collection of sequence of mappings by using the concept of weakly compatibility and continuity in complex valued metric space. Our results generalize the results proved earlier by [4].

Key Words
 complex valued Metric space ,common fixed point, weakly compatible mappings,continuity.

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Title
 COMMON FIXED POINT THEOREM FOR FOUR SELF MAPS SATISFYING CLCS-PROPERTY

Authors
 R. K. GUPTA
 S. K. MALHOTRA

Abstract
 In this article we have established some fixed point results using common limit converging in the subset CLCS-property defined by [13]. Our result extend and generalize the result established earlier by various authors such as [13] and [19].

Key Words
 complex valued Metric space ,common fixed point, weakly compatible mappings,continuity.

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Multi Server Fuzzy Queuing Model in Dodecagonal Fuzzy number Using DSW Algorithm

Lakhan Singh, S. K. Malhotra

Abstract

This paper is inspired by several server queuing model in, dodecagonal fuzzy ranges, α cut technique. The fuzzy arrival rate conjointly with the fuzzy service rate, fuzzy behavior of the model and analysis also the performance measures of above model using with dodecagonal fuzzy numbers. we've studied of some example of the models and tried to prove the best uses of this model.

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IJIRSET || Volume 9, Issue 12, December 2020 ||

A Review on Assessment of Copper and Zinc Contamination through Vehicular Emission on Vegetables Growing Near Road Side

Neelesh Agrawal¹, Asha verma²

Research Scholar, Department of Chemistry, Dr. Shyama Prasad Mukherjee Gov. Science and Commerce College, Bhopal, Madhya Pradesh, India¹
Professor, Department of Chemistry, Dr. Shyama Prasad Mukherjee Gov. Science and Commerce College, Bhopal, Madhya Pradesh, India²

ABSTRACT: Vegetables are important sources of many nutrient, including vitamins, dietary fibre, folate (folic acid), minerals and have beneficial antioxidative effects. Heavy metals like Cu and Zn can easily enter in our body through consumption of vegetables contaminated with such metals. The toxic levels of the Zinc and Copper in leafy vegetables growing near road side fields were highly dependent on vehicular exhaust and non-exhaust emissions. Industrial emissions and the frequency of brake use and vehicles coming to a complete stop were additional factors that affected the contamination levels of Zn and Cu in leafy vegetables. The concrete highway also had higher contamination levels of such heavy metals than the asphalt highway. Vehicle speed was also a Major factor contributing to the contamination of higher level of Cu and Zn in road side vegetation of heavy traffic areas. The significant level of Cu in vegetables growing in road sides areas may be due to high rate of brake abrasion from the vehicles and the levels of zinc in vegetables is due to tyre abrasion from vehicles as zinc oxide is used as a vulcanizing agent in making tyre rubber. The main aim of this review article is to determine the level of Cu and Zn in leafy vegetables collected from road side (heavy traffic) areas.

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A Review on Lead Toxicity and Its Adverse Effects on Human Health

Neelesh Agrawal¹, Asha verma²

Research Scholar, Department of Chemistry, Dr. Shyama Prasad Mukherjee Gov. Science and Commerce College, Bhopal, Madhya Pradesh, India¹

Professor, Department of Chemistry, Dr. Shyama Prasad Mukherjee Gov. Science and Commerce College, Bhopal, Madhya Pradesh, India²

ABSTRACT: Lead toxicity is one of the most hazardous metal toxicities. It can enter the body through lead-based paint, dust, water, soil, tableware, and folk medicines. Environmental lead exposure is a global health concern in children. Acute or chronic lead exposure may cause reversible or even permanent damages in human beings. Occupational lead poisoning is still a health issue, particularly in developing countries. The majority of cases of lead poisoning are due to oral ingestion and absorption through the gut. Lead poisoning in adults occurs more frequently during exposure in the workplace and primarily involves the central nervous system. Lead is highly persistent in the environment and because of its continuous use its levels rise in almost every country, posing serious threats. Lead toxicity also affects neurotransmitter levels and causes severe health issues related to organ damage, some even leading to death. Lead poisoning is preventable. This includes individual efforts such as removing lead-containing items from the home, workplace efforts such as improved ventilation and monitoring, and nationwide policies such as laws that ban lead in products such as paint and gasoline, reduce allowable levels in water or soil, and provide for cleaning of contaminated soil. The major treatments are removal of the source of lead and the use of medications that bind lead so it can be eliminated from the body, known as chelation therapy. The main aim of this review article is to summarize lead toxicity detection, its sources, and its mechanism including various toxicological effects on human health.

KEYWORDS: Lead toxicity, Lead poisoning, Chelation therapy, Human health.

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Heavy Metal Contamination in Leafy Vegetables Grown Near Roadside Areas

Neelesh Agrawal¹, Asha verma²

Research Scholar, Department of Chemistry, Dr. Shyama Prasad Mukherjee Gov. Science and Commerce College, Bhopal, Madhya Pradesh, India¹

Professor, Department of Chemistry, Dr. Shyama Prasad Mukherjee Gov. Science and Commerce College, Bhopal, Madhya Pradesh, India²

ABSTRACT: Vehicular exhaust and non-exhaust are major source of heavy metal. These released heavy metals can easily accumulate on leafy vegetables growing near road side vegetable fields through anthropogenic sources. Heavy metals toxicity occurs more readily in leafy vegetables. These leafy vegetables take up metals through leaves as well as by absorbing them from contaminated soils. These heavy metals can easily deposit on the outside parts of leafy vegetables and later on absorbed by tissues. Heavy metals produced by vehicular exhaust and non-exhaust emissions can be easily deposited on road side growing leafy vegetables through anthropogenic sources. The contamination of leafy vegetables grown in road side by heavy metals is greatly affected by vehicle volume, speed and road. Regular intake of heavy metal contaminated leafy vegetables may pose a risk to the human health. This review concludes that leafy vegetables grown near road side are exposed to higher level of heavy metal contamination through vehicular exhaust and non-exhaust emissions.

KEYWORDS: Leafy vegetables, vehicular, heavy metals.


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Assessment of aquatic insect diversity and trophic status of Kaliasote Dam.

Nisar Ahmad Ganie¹, Rajni Raina², Ashwani Wanganeo¹ and Hyder Ali Rather³

¹ Department of Environmental Science and Limnology Barkatullah University, Bhopal.
² Department of Zoology, Govt. Science and Commerce College Benazeer, Bhopal.
³ Department of Zoology, Rabindarnath Tagore University, Bhopal.

Abstract

The present study assesses the aquatic insect diversity of the Kaliasote dam. A total of 28 species of aquatic insects belonging to 5 orders (viz., Coleoptera, Diptera, Ephemeroptera, Hemiptera and Odonata) and 20 different families were recorded during the present investigation. Hemiptera and Odonata were recorded as dominant orders throughout the study period. Napidae and Belostomidae families contributed maximum number

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Comparative study of turbulent nature of solar plasma during the solar cycle 23 and 24

¹Anoop parsai
¹Barkatullah University Bhopal
²Dr Harsha Jalori
²Shyama Prasad Mukharji Govt Benazeer College Bhopal

Abstract

Solar wind variability spans a wide range of amplitudes and timescales, from turbulent fluctuations to the 11 year solar cycle. We apply the data quantile-quantile (DQQ) method to NASA/Wind observations spanning solar cycles 23 and 24, to study how the uniqueness of each cycle maximum and minimum manifests in the changing statistical distribution of plasma parameters in fast and slow solar wind. The DQQ method allows us to discriminate between two distinct components of the distribution: the core region simply tracks the solar cycle in its moments but shows little sensitivity to solar wind state or the specific activity of each cycle. This would be consistent with an underlying in situ process such as turbulence driving the evolution of fluctuations up to an outer scale. In contrast the tail component of the distribution is sensitive both to the differences

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Fixed Point Theorem in Fuzzy Metric Space using Occasionally Weakly Compatible Mappings

Rajesh Shrivastava¹, Arihant Jain² and Archana Yadav³

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²School of Studies in Mathematics, Vikram University, Ujjain (M.P.) 456010

Abstract: In this paper, the concept of semi-compatibility and occasionally weak compatibility in Fuzzy metric space has been applied to prove a common fixed point theorem which generalizes the result of Agarwal et al. [1].

Keyword: Fuzzy metric space, common fixed point, compatible maps, semi-compatible maps and occasionally weak compatible maps.

AMS Subject Classification : Primary 47H10, Secondary 54H25.

1. INTRODUCTION


In 1965, the concept of fuzzy sets was introduced by Zadeh [11]. Afterwards, this concept was used in topology and analysis. Many authors have extensively developed the theory of fuzzy sets

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Research Article
ISSN 2394-3211
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EFFECT OF POLLUTANTS ON FISH AND AMPHIBIAN WITH VARIOUS HISTOCHEMICAL CHANGES

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Department of Zoology, Govt. Dr. Shyama Prasad Mukherjee Science and Commerce P. G. College, (Old Benazer) Bhopal M.P.

*Corresponding Author: Dr. Mukesh Kumar Napit
Department of Zoology, Govt. Dr. Shyama Prasad Mukherjee Science and Commerce P. G. College, (Old Benazer) Bhopal M.P.

Article Received on 05/01/2021 Article Revised on 26/01/2021 Article Accepted on 14/02/2021

ABSTRACT
In present study, the comparative study on midgut trehalase in fifth instars larvae of bivoltine races CSR2, CSR2×4 and CSR4 were done. The maximum activity of trehalase showed at pH 5.5 in all the races at maximum temperature 50°C in CSR2 and CSR2×4 while in CSR4 at 45°C. The digestion time required for 30 minutes in race CSR2 and CSR2×4 and 20 minutes for CSR4. The Km values calculated from the graph. The Km values for CSR2, CSR2×4 and CSR4 were 10.57x10⁻³M, 2.57 x10⁻³M and 0.77x10⁻³M respectively. It indicates that CSR4 showed maximum efficient trehalase activity as compared to other two races.

KEYWORDS: Midgut trehalase, Bivoltine, Silkworm.

INTRODUCTION
The pollutants and drastic environmental variation have also adversely effected and changed water qualities i.e. colour, hardness, turbidity, alkalinity, pH, COD, BOD and TDS etc. Aquatic life, thus, also is affected. Changes in morphology of fish like- colour, pigmentation, length, weight mass, structure of scales, finrays etc. may occur. This can not be ignored that the afore-mention variation may be responsible to develop new varieties or sub species.

stream sites and Fish and amphibian species collected at Damoh, which was possible due to discharge of lead containing influent from Narsingarh mycem cement Industries along site of the copra and sunar river in Damoh District.

By discharge from the effluent inflows, amount of heavy metal and pesticides in water show an increase. They are present in water in dissolved condition from only at low levels, since heavy metal compounds have low solubility, Mineral suspension and precipitation substances are able

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STUDY OF PHYSICO-CHEMICAL PARAMETERS OF FISH FAUNA REFERENCE TO VEERANGANA DURGAVATI WILDLIFE SANCTUARY WATER BODIES

***Dr. Mukesh Kumar Napit**
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INTRODUCTION
The pollutants and drastic environmental variation have also adversely effected and changed water qualities i.e. colour, hardness, turbidity, alkalinity, pH, COD, BOD and TDS etc. Aquatic life, thus, also is affected. Changes in morphology of fish like- colour, pigmentation, length, weight mass, structure of scales, finrays etc. may occur. This can not be ignored that the afore-mention variation may be responsible to develop new varieties or sub species.

Unfortunately, negligible work is done in relation to fish fauna of the area in recent-past. Though, appreciable limnological work is done, yet the fish fauna remained unexplored. The fauna study is of tremendous significance in determining population density and calculating sub specific diversity and conservation of ecosystem in Damoh Distric Veerangana Durgavati Wildlife Sanctuary (VDWS) is situated in Damoh District of Madhya Pradesh and lies between 23 30' and 23 35'N latitudes and 79 40' and 79 50' E longitudes. The sanctuary stretches over a total area of 24km with undulating terrain. The area of the sanctuary consists of well reserved forest classified as tropical mixed dry deciduous forest of medium and dense quality. The sanctuary is attributed with all kinds of habitat, number of water resources and fish base and faunal diversity.

The population study of major carps fishes also revealed that *Labeo rohita* (Ham.) and *Catla catla* (Ham.) were observed higher in limnetic zones than in littoral zones of the water bodies, throughout the period of study except in the rainy season, while the population of *Cirrhinus mrigla* (Ham.) was higher at limnetic zones except in summer months and the population of *Cyprinus Corpio* (L.) has been observed to be higher only at littoral zones during summer and the rainy season. (Table-3)

MATERIALS AND METHODS
Study Area: The present study was carried out on Veerangana Durgavati Wildlife Sanctuary water bodies situated in Damoh District, Madhya Pradesh, India.
Sample Collection: Water samples were collected during

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DISTRIBUTION OF THE FRESHWATER BIVALVES IN THE WATER BODIES OF BHOPAL DISTRICT

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ABSTRACT
Different water reservoirs a rivers from the Bhopal district region were surveyed for the biodiversity of bivalves it was observed the there were four major species as *Lamelliidens corrianus*, *Lamelliidens marginalls*, *Parreysia corrugate* and *Indonaiia caeruleus* available in the water of Bhopal district region. Beside these species, there was a species of *Corbiculid*, the *Corbicula regularis* which was very rare and it being small was not useful for the food value and its shell was also not nacreous, therefore it was not important for the aquaculture. The details of the surveyed places and the availability of the bivalve species in different habitats were accounted. Their ecological biodiversity were studied and the data were prepared.

KEYWORDS: Bivalve, water bodies, Bhopal district region.

INTRODUCTION
The bivalves are filter feeders and always found in the regions where the water is available throughout the year. It therefore makes very difficult to collect the animals when they reach the depth as much as fifty feet due to the increase of the water level of the reservoir during rainy season. The rivers may not have flowing water throughout the year. Usually the river areas in which the water is released for the agriculture and drinking purpose from the dams have running water for most of the year.


MATERIALS AND METHODS
The water bodies and the areas where the availability of the water was throughout the year were surveyed. The sites at freshwater bodies for the collection of bivalves from lentic and lotic habitat in Bhopal district region were confirmed. Bivalves were collected from different lentic and lotic localities of Bhopal district region as per their availability. The collected bivalves were identified as per the manual of the Zoological Survey of India and their availability in different locations was recorded.

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STUDY OF FISH FAUNA OF BUNDELKHAND REGION WITH SPECIAL REFERENCE TO DAMOH DISTRICT

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ABSTRACT
The pollutants and drastic environmental variation have also adversely effected and changed water qualities i.e. colour, hardness, turbidity, alkalinity, pH, COD, BOD and TDS etc. Aquatic life, thus, also is affected. Changes in morphology of fish like- colour, pigmentation, length, weight mass, structure of scales, finrays etc. may occur. This can not be ignored that the afore-mention variation may be responsible to develop new varieties or sub species.

Unfortunately, negligible work is done in relation to fish fauna of the area in recent-past. Though, appreciable limnological work is done, yet the fish fauna remained unexplored. The fauna study is of tremendous significance in determining population density and calculating sub specific diversity and conservation of ecosystem in Damoh District.

KEY WORDS: Fish Fauna, Biodiversity, Endangered Species.


INTRODUCTION
The Bundelkhand region of north India is encompassed by two states, i.e., M.P. and U.P. Its greater part falls in M.P. covering 5 district viz, Damoh, Sagar, Chhatarpur, Tikamgarh and Panna. Its terrain being rocky has reduced water level, and due to this, the area has much irrigation potentiality. With a view to meet this demand

Study of biodiversity of fish fauna and their identification, is one of the interesting field of biological research, which gives us an idea about the morphological variation and population diversity of fauna in polluted and non polluted site of any particular habitat.

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BIO- FERTILIZER- KEY TO SUSTAINABLE AGRICULTURE IN MP

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ABSTRACT
The Bundelkhand region of north India is encompassed by two states, i.e., M.P. and U.P. Its greater part falls in M.P. covering 5 district viz, Damoh, Sagar, Chhatarpur, Tikamgarh and Panna. Its terrain being rocky has reduced water level, and due to this, the area has much irrigation potentiality. With a view to meet this demand of the region M.P. state irrigation department is giving greater importance to the development of irrigation projects in Bundelkhand region. Accordingly, many major, medium and minor irrigation reservoirs are constructed. Indiscriminate use of synthetic fertilizers has led to the pollution and contamination of the soil, has polluted water basins, destroyed microorganisms and making the crop more prone to diseases and reduced soil fertility. Bio fertilizers are one of the best modern tools and a gift of our modern agricultural science Bio- fertilizers are applied in the agricultural field as a replacement to our conventional fertilizers. In MP the availability and affordability of fossil fuel based chemical fertilizers at the farm level have been ensured only through imports and subsidies. Today bio-fertilizers have emerged as highly potent alternative to chemical fertilizers due to their eco-friendly, easy to apply, non toxic and cost effective also they make nutrients that are naturally abundant in soil and atmosphere, usable for plants and act as supplements to agrochemicals This paper underline achievements/disappointments issues in Indian context and for its future in India emphasizes the need for high degree of Innovation and active participation in scientific research and development, public awareness programme to enhance the extra potential of sustainable agriculture.

KEYWORDS: Bio-fertilizers, Organic farming, Crop growth, Sustainability.

INTRODUCTION
Bio-Fertilizers means biologically active products or to enhance plant growth and reproduction. Several microorganisms and their association with crop plants