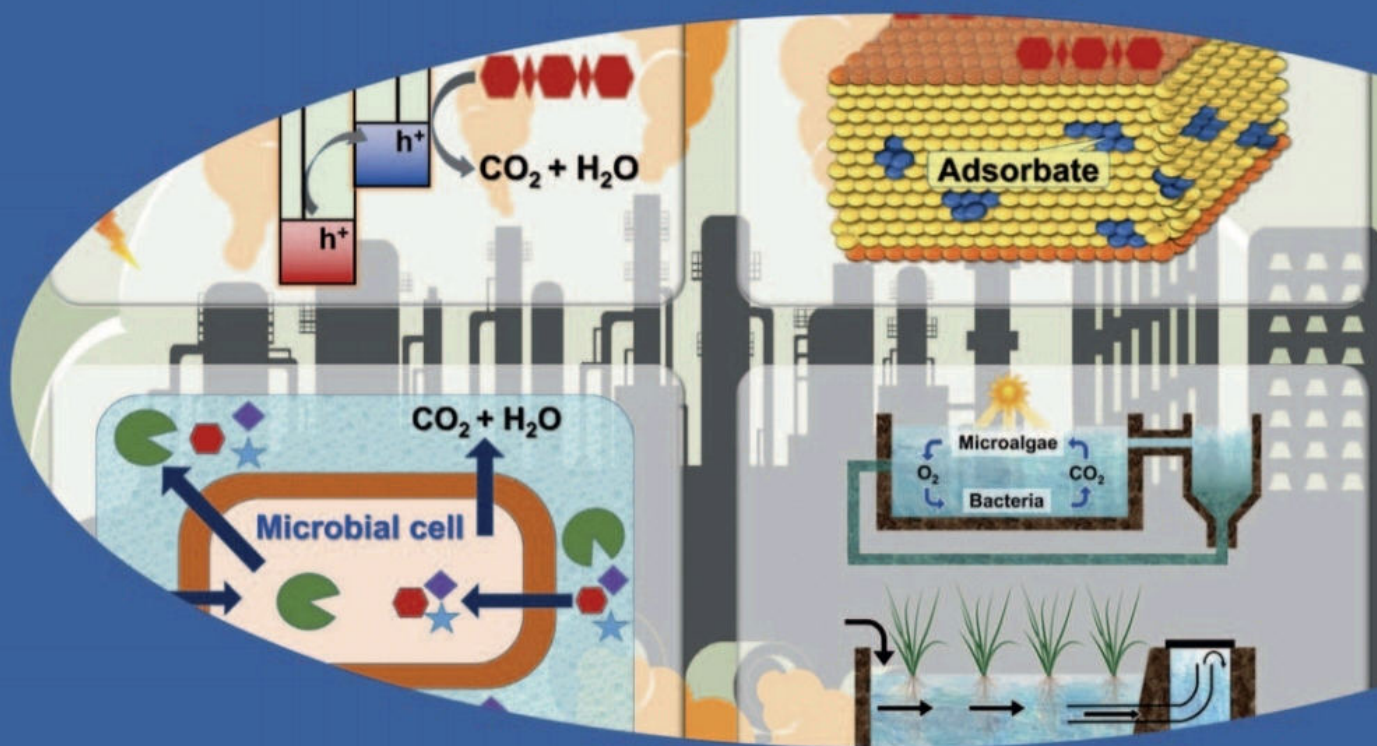
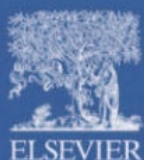


Current Developments in Bioengineering and Biotechnology



Advances in Eco-Friendly and Sustainable Technologies
for the Treatment of Textile Wastewater



Editors
Sanjay P. Govindwar • Mayur B. Kurade
Byong-Hun Jeon • Ashok Pandey



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Edited by

Sanjay P. Govindwar

Department of Earth Resources and Environmental Engineering,
Hanyang University, Seoul, South Korea

Mayur B. Kurade

Department of Earth Resources and Environmental Engineering,
Hanyang University, Seoul, South Korea

Byong-Hun Jeon

Department of Earth Resources and Environmental Engineering,
Hanyang University, Seoul, South Korea

Ashok Pandey

Centre for Innovation and Translational Research, CSIR-Indian Institute of
Toxicology Research, Lucknow, India

Sustainability Cluster, School of Engineering, University of Petroleum and
Energy Studies, Dehradun, India



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Systems biology and multiomics integration in biological treatment of textile wastewater

Swapnil M. Patil¹, Asif S. Tamboli², Bhumika N. Bhalkar³, Shripad N. Surawase⁴, Anuprita D. Watharkar⁵, Byong-Hun Jeon¹

¹DEPARTMENT OF EARTH RESOURCES AND ENVIRONMENTAL ENGINEERING, HANYANG UNIVERSITY, SEOUL, SOUTH KOREA; ²RESEARCH INSTITUTE FOR DOK-DO AND ULLEUNG-DO ISLAND, DEPARTMENT OF BIOLOGY, SCHOOL OF LIFE SCIENCES, KYUNGPOOK NATIONAL UNIVERSITY, DAEGU, SOUTH KOREA; ³DEPARTMENT OF BIOTECHNOLOGY, SHIVAJI UNIVERSITY, KOLHAPUR, MAHARASHTRA, INDIA; ⁴DEPARTMENT OF MICROBIOLOGY, SHIVAJI UNIVERSITY, KOLHAPUR, MAHARASHTRA, INDIA; ⁵CHANGU KANA THAKUR ART, COMMERCE AND SCIENCE COLLEGE, NEW PANVEL (W), MAHARASHTRA, INDIA

1. Introduction

The field of systems biology integrates various types of quantitative molecular techniques with mathematical models to unravel the biology of complex living systems, which is performed by biologists, chemists, engineers, mathematicians, and physicists (Breitling, 2010; Hillmer, 2015). Systems biology has provided scientists with a powerful tool to integrate multi-omics datasets (genomics, transcriptomics, proteomics, and metabolomics) and learn more about cells, organisms, and microbial communities (Grav et al., 2018; Hagemann and Hesse, 2018; Xu, 2018). Despite the increasing accessibility of omics data and the increasing frequency of multiomics studies, true integration of multiomics into field studies remains difficult. This is because many analytical tools, experimental designs, and multiomics disciplines cannot be effectively used to enable comparisons and integration across multiple omics disciplines (Pinu et al., 2019). Natural methods of cleaning the environment are very effective in maintaining an ideal balance. However, modern industrialization has accelerated the release of pollutants into the environment at a rate that exceeds the natural ability to remove them. Using systems biology, researchers are exploring the intricate relationships and networks within biological systems at different structural levels. Integrating results from different omics approaches has provided important insights into how microbial communities survive, interact, and metabolize in their natural habitats (Baker and Banfield, 2003;

About the Editors

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Prof. Sister Pearl is the Principal of Sophia Girls' College (Autonomous), Ajmer, a pioneer institution for women education in Rajasthan with an 'A' Grade Re-Accreditation Certificate by NAAC. Prof. Sister Pearl has been the University Topper in both her UG and PG Program. She has a Doctoral Degree in Foods and Nutrition and is the Subject Expert in many universities of national repute. She is the member of the UGC Expert Committee for the Renewal of Autonomy and also member of the Academic Council of M.D.S. University, Ajmer. She is also member of many Academic, Administrative and Professional Bodies. Since taking over as Principal, Sister has zealously worked hard to enrich the research culture in the College and has patronized many academic events for the same. She has organized a plethora of Conferences, Workshops and Faculty Development Programs under her aegis to promote the adoption of latest NAAC Guidelines for the benefit of not only her own faculty but other institutions in the vicinity as well. Sister is a devoted counsellor and spiritual healer, who conducts training sessions and programs for children, youth and married couples. She has an avid interest in Extension Work and Community Service and has coordinated Literacy and Skill Development Programs in the Juvenile Prison for many years.



Editors

Ms. Sonal Sharma, Assistant Professor, Department of English, Sophia Girls' College (Autonomous), Ajmer, completed her Post Graduation from Government College, Ajmer and is currently pursuing Ph.D. from Tanta University, Sri Ganganagar. She specializes in American Literature, Indian Literature and Postcolonial Studies. She has presented papers in several International and National Conferences/ Seminars organized by institutions acclaimed for academics and research. She has also reviewed papers for Sardar Vallabh Bhai National Institute of Technology, Surat.



Sr. Vinita Xalxo Assistant Professor, Department of English, Sophia Girls' College (Autonomous), Ajmer. She has presented papers at numerous National and International Conferences and Seminars that have been sponsored by renowned academic and research institutions.



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Recent Trends in Children's Literature



Prof. Sister Pearl | Ms. Sonal Sharma | Sr. Vinita Xalxo

Exploration of Adventure and Identity Crisis Depicted in N. Scott Momaday's "House of Dawn"

Dr. Rajesh Vishnu Yeole¹ & Ms. Disha M Pingle²

Abstract: Navarro Scott Momaday is eminent and commendable Kiowa novelist, short story writer, essayist and poet. He is renowned for being the first Native American writer to win Pulitzer Prize for fiction in 1969 for his magnum opus literary work "House of Dawn". His masterpiece "House of Dawn" is celebrated as the first prominent work of Native American Renaissance. Momaday has been the pioneer in the realm of Native American Renaissance of the century.

He had sustained his Native American culture and heritage through his classic literary works and has been an exceptional inspiration for other Native writers. His extraordinary writings express his own perspective with major concern regarding his indigenous roots. In "House of Dawn", Momaday had dramatically depicted the audacious odyssey of

¹Head Department of English, Changu Kana Thakur College Arts, Commerce and Science College, New Panvel Autonomous, Raigad District-410206, Email : rajesh.yeole001@gmail.com

²Research Scholar, Department of English, Changu Kana Thakur College Arts, Commerce and Science College, New Panvel Autonomous, Raigad District-410206, Email: pingledisha33@gmail.com

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DR. EKNATH MUNDHE
DR. PRABHAKAR CHAVAN

EDITOR

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EDITOR

DR. EKNATH MUNDHE
Professor,
Rayat Shikshan Sanstha's,
S. M. Joshi College Hadapsar,
Pune-411028

DR. PRABHAKAR CHAVAN
Associate Professor,
Dept. of Lifelong Learning &
Extension,
S. N. D. T. Women's University,
Mumbai-400020

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DR. EKNATH MUNDHE
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Rayat Shikshan Sanstha's,
S. M. Joshi College Hadapsar,
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DR. PRABHAKAR CHAVAN
Associate Professor,
Dept. of Lifelong Learning & Extension,
S. N. D. T. Women's University,
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Manisha Shinde
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Prajakta Pankaj Mohite
Rohini Nikam Ghadage
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Authors

Manisha Suresh Shinde,

M.Sc, MH SET, Assistant Professor, Department of Microbiology,
Yashavantrao Chavan Institute of Science, Satara (Autonomous),
A Lead college, Karmaveer Bhaurao Patil University, Satara, Maharashtra, India.

Ms. Mansi Mohan Raut,

M.Sc, MH SET, Assistant Professor, Department of Microbiology,
Yashavantrao Chavan Institute of Science, Satara (Autonomous),
A Lead college, Karmaveer Bhaurao Patil University, Satara, Maharashtra, India.

Gauri Raturaj Vaidya

M.Sc (Microbiology), Assistant Professor, Department of Microbiology,
Asian College of Science and Commerce, Pune, Maharashtra, India.

Prajakta Pankaj Mohite,

Assistant Professor, Department of Microbiology,
Asian College of Science and Commerce, Pune, Maharashtra, India.

Rohini Nikam Ghadage,

M.Sc (Microbiology), Assistant Professor, Department of Microbiology,
Yashavantrao Chavan Institute of Science, Satara, Maharashtra, India.

Kazi Namira Hussain,

M.Sc. (Microbiology), Department of Microbiology,
Seva Sadan's R.K.Talreja college of Art, Science and Commerce, Ulhasnagar,
Mumbai University, Maharashtra, India.

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Aniket Ramchandra Agrahari,

M.Sc. (Microbiology), Department of Microbiology,
Seva Sadan's R.K.Talreja college of Art, Science and Commerce, Ulhasnagar,
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Dr. Suresh Chandra Singh

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on
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Rajesh Dhakane

Dr. Narayan Dattatraya Totewad

Dr. Suresh Chandra Singh

Dr. Vijay Upadhye

Editors

Mr. Ganesh Sadashiv Sathe

Dr. Samadhan R. Waghmode

Dr. Gutte Sudhakar Laxmanrao

Mr. Dinesh Gaikwad





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Authors

Dr. Anjali Bhoite,

Associate Professor, In-charge Principal, MIT School of Food Technology MITADT
University, Rabga, Pune, Maharashtra, India.

Rajesh Dhakane,

Assistant Professor, Department of Microbiology, Jayawantrao Sawant College of
Commerce and Science, Hadapsar, Pune, Maharashtra, India.

Dr. Narayan Dattatraya Totewad,

Assistant Professor in Microbiology at B. K. Birla College of Arts, Science &
Commerce (Autonomous), Kalyan, District Thane, Maharashtra, India.

Dr. Suresh Chandra Singh,

Technical Operation Head in Pathkits Healthcare Pvt Ltd,
Gurugram, Haryana, India.

Dr. Vijay Upadhye,

Deputy Director, Center of Research for Development, Associate Professor,
Parul University of Applied Science (PIAS), Parul University, PO Limda,
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Assistant Professor, Department of Microbiology, Changu Kana Thakur Arts,
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Dr. Samadhan R. Waghmode,

Assistant Professor, Department of Microbiology, Elphinstone College, Dr. Homi
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Assistant Professor, Department of Chemistry, Bharatiya Jain Sanghatanas ASC
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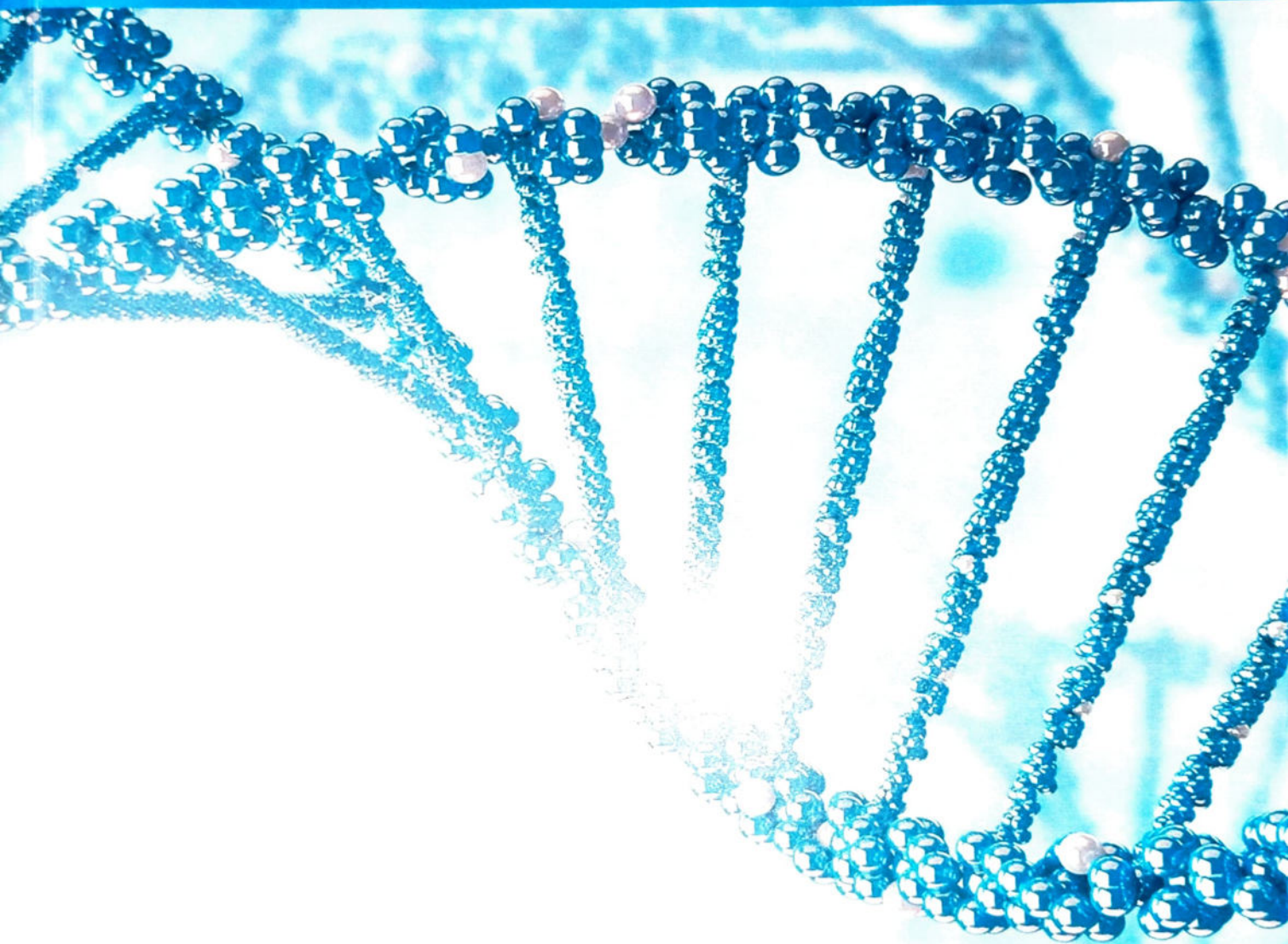


Dr. Anjali A. Bhoite is presently working as Associate Professor & In Charge Principal of the MIT School of Food Technology, MITADT University, Ragbag, Pune, Maharashtra, India. She has completed PhD in Microbiology from Savitribai Phule Pune University, Pune, Maharashtra, India. She has a wide range of teaching and research experience in the area of Food Safety, Food Microbiology and Fermentation Technology. During her career span of 15 years, she involved in the Undergraduate Teaching, Postgraduate Teaching, Food microbiology and fermentation Technology Research. Presently, she is an internal member of MIT SoFT Board of Studies (BoS) and contributed a lot in framing the syllabus of B. Tech, M.Tech and PhD courses in Food Technology.

Three dimensional development and Industry need based curriculum is always her focus. She contributed in designing the specialty designing program such as Village adoption Program, Industry based practical projects, Postgraduate research project evaluation guidelines and Skill base activities for the postgraduate students. Being a passionate for food safety, she is actively engaged in the University campus' internal auditing procedure as per the standard guidelines laid down by FSSAI and taking part in organizing the various seminars and workshops jointly with FSSAI. She is also president of Association of Food Scientist Technology, (AFST(I) Pune chapter. She is a life member of various professional bodies like Nutrition society of India, and AMI. She emphasises on student centric teaching learning and as part of which she is motivating the students for participation in various national and international conferences workshops. Additionally, she participated as a speaker in various national and international conferences.

She always insisted the students to transform their idea / knowledge into user friendly technology, through competitions like HACKTHON. Under her mentorship, MIT School of Food Technology was National level II runner up team during SIH 2017 and she mentored the students' team selected for SIH 2020. She has Published 12 papers various journals. She also wrote informative articles and book chapters and books. She has guided more than 90 students for their hands-on training program. She is

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PREFACE

Bioinformatics includes biological studies that use computer programming as part of their methodology, as well as specific analysis "pipelines" that are repeatedly used, particularly in the field of genomics. There has been a tremendous advance in speed and cost reduction since the completion of the Over the past few decades, rapid developments in genomic and other molecular research technologies and developments in information technologies have combined to produce a tremendous amount of information related to molecular biology. Bioinformatics is the name given to these mathematical and computing approaches used to glean understanding of biological processes.

Common activities in bioinformatics include mapping and analyzing DNA and protein sequences, aligning DNA and protein sequences to compare them, and creating and viewing 3-D models of protein structures. Bioinformatics is a science field that is similar to but distinct from biological computation, while it is often considered synonymous to computational biology. The field of bioinformatics experienced explosive growth starting in the mid-1990s, driven largely by the Human Genome Project and by rapid advances in DNA sequencing technology.

Before sequences can be analyzed they have to be obtained from the data storage bank example Genbank. DNA sequencing is still a non-trivial problem as the raw data may be noisy or affected by weak signals. For a genome as large as the human genome, it may take many days of CPU time on large-memory, multiprocessor computers to assemble the fragments, and the resulting assembly usually contains numerous gaps that must be filled in later.

In the context of genomics, annotation is the process of marking the genes and other biological features in a DNA sequence. This process needs to be automated because most genomes are too large to annotate by hand, not to mention the desire to annotate as many genomes as possible, as the rate of sequencing has ceased to pose a bottleneck. Annotation is made possible by the fact that genes have recognisable start and stop regions, although the exact sequence found in these regions can vary between genes. Genome annotation can be classified into three levels: the nucleotide, protein, and process levels. For example, gene expression can be regulated by nearby elements in the genome. Promoter analysis involves the identification and study of sequence motifs in the DNA surrounding the coding region of a gene. These motifs influence the extent to which that region is transcribed into mRNA. Enhancer elements far away from the promoter can also regulate gene expression, through three-dimensional looping interactions. These interactions can be determined by bioinformatic analysis of chromosome conformation capture experiments.

Output:

```
Command Prompt
C:\Users\GeeksForGeeks>perl File.pl
Existing Content of Hello.txt: Welcome to GeeksForGeeks!!!
Updated contents of Hello.txt: Welcome to GeeksForGeeks!!!Added using Read-Write Mode.
C:\Users\GeeksForGeeks>
```

Mode = "+>" This is Read-Write Mode. The difference between "+<" and "+>" is that "+>" can create a new File, if one with the name is not found, but a "+<" cannot.

```
#!/usr/bin/perl
# Opening File Hello.txt in Read mode
open(r, "<", "Hello.txt");
# Printing the existing content of the file
print("Existing Content of Hello.txt: " . <r>);
# Closing the File
close(r);
# Open Hello.txt in Read-Write Mode
open(rw, "+>", "Hello.txt");
# Original contents of the File
# are cleared when the File is opened
print("\nContents of Hello.txt gets cleared...");
# The string is written to the File
print rw "Hello!!! This is updated file.";
# Set rw to the beginning of the File for reading.
seek rw, 0, 0;
print("\nUpdated Content of Hello.txt: " . <rw>);
# Closing the File
close(rw);
```

Output:

```
Command Prompt
C:\Users\GeeksForGeeks>perl File.pl
Existing Content of Hello.txt: Welcome to GeeksForGeeks!!!
Contents of Hello.txt gets cleared...
Updated Content of Hello.txt: Hello!!! This is updated file.
C:\Users\GeeksForGeeks>
```

Mode = "+>>" This is Read-Append Mode. This can be used to Read from a File as well as Append to it. A new File with same name is created, if one is not Found.

```
# Open Hello.txt in Read-Append Mode
open(ra, "+>>", "Hello.txt");
# Set ra to the beginning of the File for reading.
seek ra, 0, 0;
# Original content of the File
# is NOT cleared when the File is opened
print("Existing Content of the File: " . <ra>);
print "\nAppending to the File....";
# The string is appended to the File
print ra "Added using Read-Append Mode";
# Set ra to the beginning of the File for reading.
seek ra, 0, 0;
# Printing the updated content
print("\nUpdated content of the File: " . <ra>);
# Closing the File
close(rw);
```

Output:

Command Prompt

```
C:\Users\GeeksForGeeks>perl File.pl
Existing Content of the File: Welcome to GeeksForGeeks!!!
Appending to the File...
Updated content of the File: Welcome to GeeksForGeeks!!!Added using Read-Append Mode
C:\Users\GeeksForGeeks>
```

- Open a FileHandle to write i.e. ">", ">>", "+<", "+>" or "+>>".

Select the FileHandle using select function.

Author Profile



Dr. Mrs.M.A. Mhatre, M.Sc. Ph.D. in Zoology Completed Diploma in Bioinformatics programming. Working as an Associate Professor and Head ,Dept. of Zoology at C. K. Thakur A.C.S.College, New Panvel has 25 Years of teaching experience which involves Undergraduate and Post graduate teaching. Worked as Chairperson, Board of Studies in Zoology, C.K.Thakur A.C.S.College, New Panvel (Autonomous).Published more than 20 research papers and presented number of papers at national and international conferences. Completed UGC research Projects. Conducted Certificate Course in Bioinformatics for the learners. Completed Global Skill Enhancement program conducted by Infosys BPO at Infosys.



Professor in Zoology at B.N.Bandodkar college of Science (Autonomous) Thane. Member of the Zoology syllabus committee board at the University of Mumbai for Ph.D. and M.Phil. of BoS Human Science and Clinical psychology. Faculty Advisor CASI MAHA Model award (2019). Resource person for UGC refresher courses at different Universities, workshops (national and international), 6 Indian patents, 5 International patents, and Interdisciplinary research and publications, research papers read at national and international conferences. Two books published with co-authors and Edited 4 books, author of chapters in many Zoology books. Recipient of Samaj Bhushan Puraskar from Thane Patrakar Sangh, BEQET (2019) Special Citation Award, Maharashtra govt Merit scholarship for Ph.D. 1991 to 1993, International woman's diamond jubilee scholarship, All India 4th Rank holder in NCC pre-commission course.

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Department: Accounting and Finance

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SEM - II

मानवी भूगोल

घटक १ - मानवी भूगोल - प्रस्तावना

- मानवी भूगोल - अर्थ, व्याख्या, स्वरूप व व्याप्ती
- मानवी भूगोलाच्या शाखा
- मानवी भूगोलातील विविध दृष्टीकोन
- मानव - पर्यावरण संबंध - पर्यावरणीय निश्चयवाद (Environmental Determinism) - संभववाद (Possibilism) - शक्यतावाद (Probablism)

घटक २ - लोकसंख्या

- जागतिक लोकसंख्येत होणारे बदल - कल (Trend) व आकृतीबंध
- लोकसंख्या स्थित्यंतराचे प्रतिमान (Demographic Transition Model)
- लोकसंख्येची घनता - त्याचे वितरण व वाढ
- न्यूनतम लोकसंख्या (Under Population) - अतिरिक्त लोकसंख्या (Over Population) यांच्या संकल्पना व समस्या.
- भूजैव रासायनिक चक्रे - जलचक्र, कार्बन चक्र व नायट्रोजन चक्र

घटक ३ - वस्त्या

- नागरी व ग्रामीण वस्त्यांच्या संकल्पना
- वस्त्यांचे प्रकार व आकृतीबंध
- स्थान व स्थिती
- नागरी वस्त्यांचे कार्यात्मक वर्गीकरण

घटक ४ - स्थलांतर

- स्थलांतराची संकल्पना व प्रकार
- स्थलांतराची कारणे - ओढ - ढकल घटक (Push-Pull), स्थलांतराचे परिणाम
- स्थलांतराचे आकृतीबंध व प्रक्रिया
- स्थलांतराचे सध्याचे प्रवाह किंवा आंतरराष्ट्रीय स्थलांतराची समस्या - कायदेशीर व बेकायदेशीर स्थलांतरामुळे निर्माण होणारी निर्वासितांची समस्या.

घटक ५ - प्रात्यक्षिक

- नकाशा - व्याख्या, घटक - प्रकार व महत्व
- नकाशा प्रमाण - व्याख्या, शब्द प्रमाण आणि आलेख प्रमाण
- नकाशा काढणे
 - प्रदेशदाटीदर्शक नकाशा
 - समदाटीदर्शक नकाशा
 - टिंबाचा नकाशा
 - ओघदर्शक नकाशा

SEM - II

पर्यावरण भूगोल

घटक १ - पर्यावरण भूगोलाची मूलतत्वे

- व्याख्या - पर्यावरणाची व्याख्या, पर्यावरण भूगोल - संकल्पना, घटक आणि व्याप्ती
- स्वरूप, व्याप्ती आणि महत्व
- मानव पर्यावरण संबंध
- पर्यावरण भूगोलाचा इतर शास्त्रांशी असलेला संबंध

घटक २ - परिसंस्थेची संरचना आणि कार्ये

- परिसंस्था - अर्थ आणि व्याख्या परिसंस्थेची संरचना
- कार्ये - परिसंस्थेतील ऊर्जा प्रवाह, अन्न साखळी, अन्न जाळी, अन्न मनोरा (Pyramid)
- परिसंस्थेचे वर्गीकरण - वाळवंट, वर्षावने (Rainforest) व गोड्या पाण्याच्या तळ्यांच्या परिसंस्था. यांचा सखोल अभ्यास
- तळी व सरोवरे यातील परिसंस्था
- भूजैव रासायनिक चक्रे - जलचक्र, कार्बन चक्र व नायट्रोजन चक्र

घटक ३ - सध्याच्या पर्यावरणीय समस्या

- प्रदूषण - हवा आणि पाण्याचे प्रदूषण - कारणे आणि परिणाम
- जमीन व ध्वनी प्रदूषण - कारणे आणि परिणाम
- प्रमुख पर्यावरणीय समस्या - जागतिक तापमान वाढ - ओझोनचा ऱ्हास व आम्ल पर्जन्य
- प्रमुख पर्यावरणीय चळवळी - अॅमेझॉन वाचवा चळवळ किंवा ग्रीन पीस चळवळ, चिपको चळवळ, नर्मदा बचाव चळवळ

घटक ४ - नैसर्गिक साधनसंपत्ती आणि जैवविविधता

- नैसर्गिक साधनसंपत्ती - अर्थ, व्याख्या आणि महत्व
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- नैसर्गिक संपत्तीच्या उपाययोजना
- भारतातील जैवविविधता आणि त्यांचे संवर्धन

घटक ५ - नकाशात घटक दर्शविणे व नकाशावरील प्रश्न / प्रात्यक्षिक

- नकाशात माहिती भरणे - जगाचा नकाशा
- विषयवार (Thematic) नकाशांवर आधारित नकाशांचे विश्लेषण किंवा त्यावरील प्रश्न
 - प्रदेशदाटीदर्शक नकाशा
 - समदाटीदर्शक नकाशा
 - टिंबाचा नकाशा
 - ओघदर्शक नकाशा

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SYLLABUS

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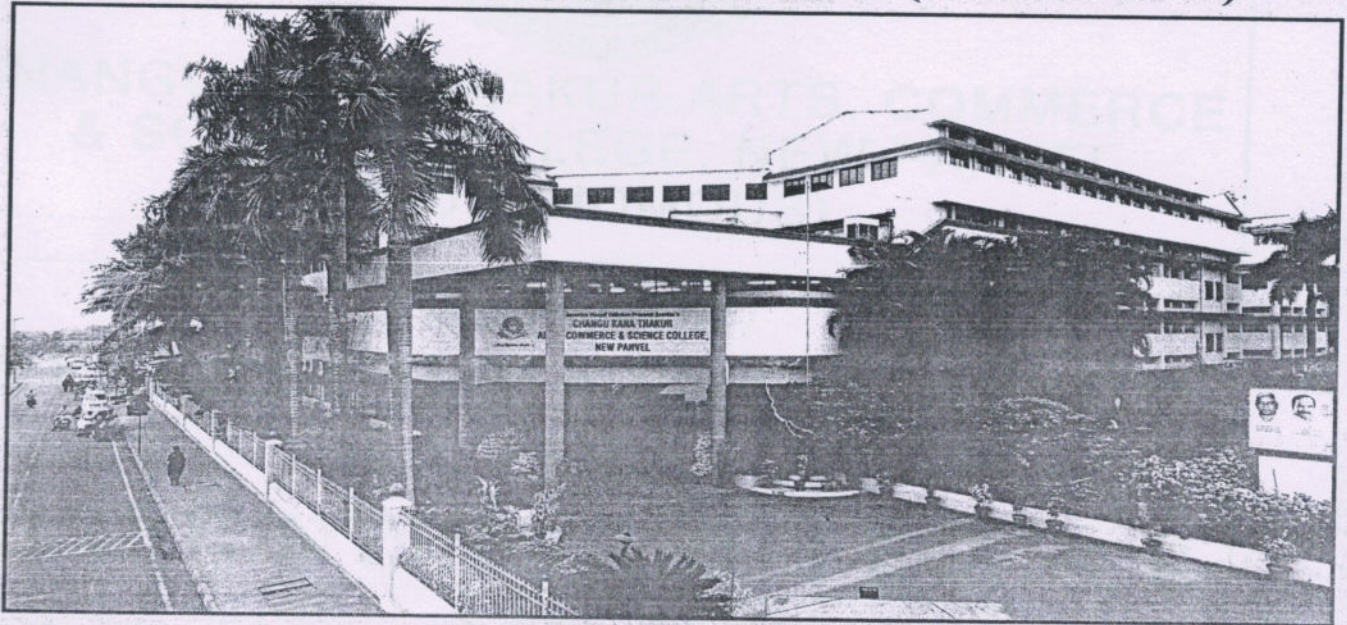
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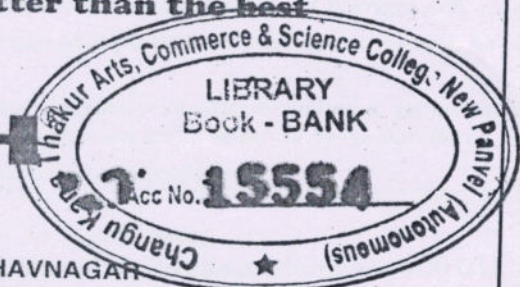
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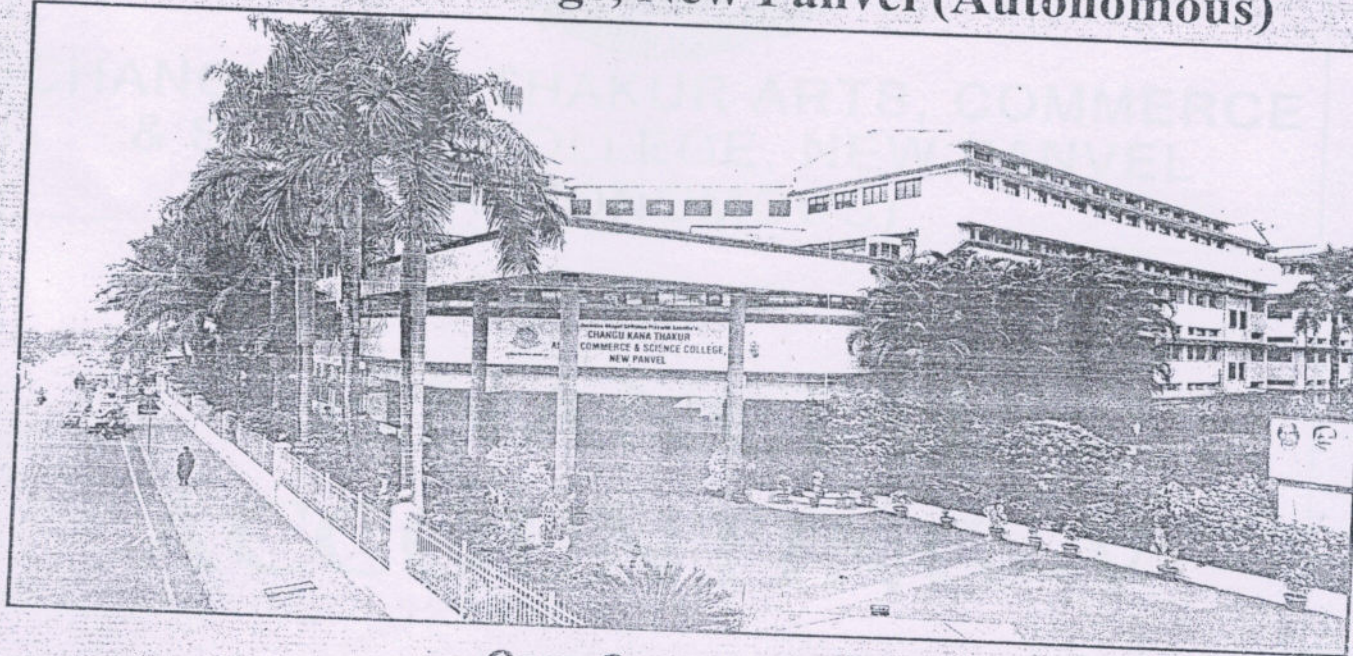
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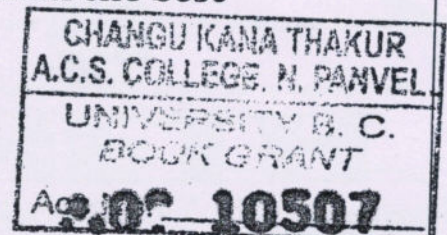
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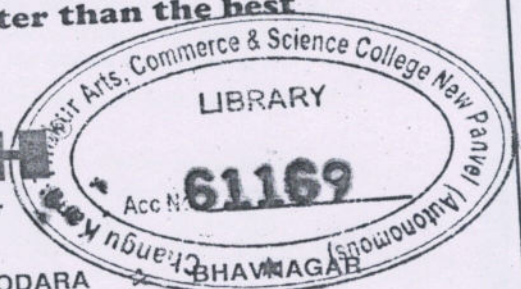
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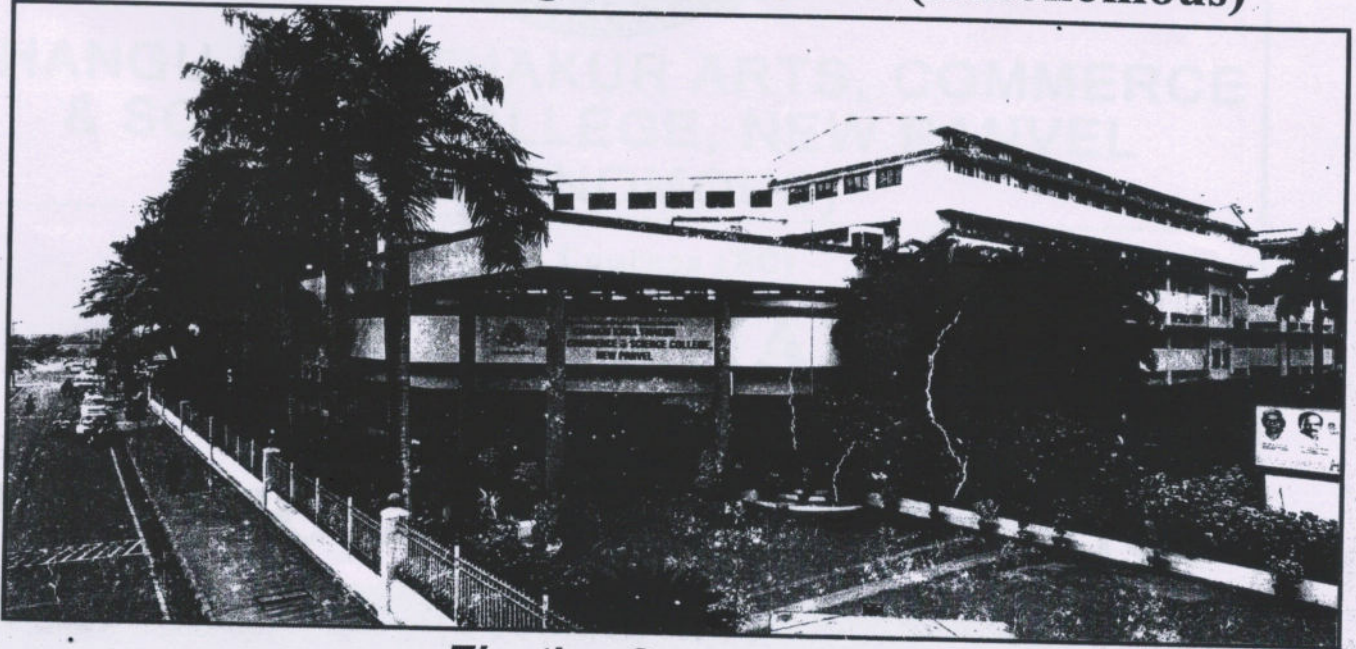
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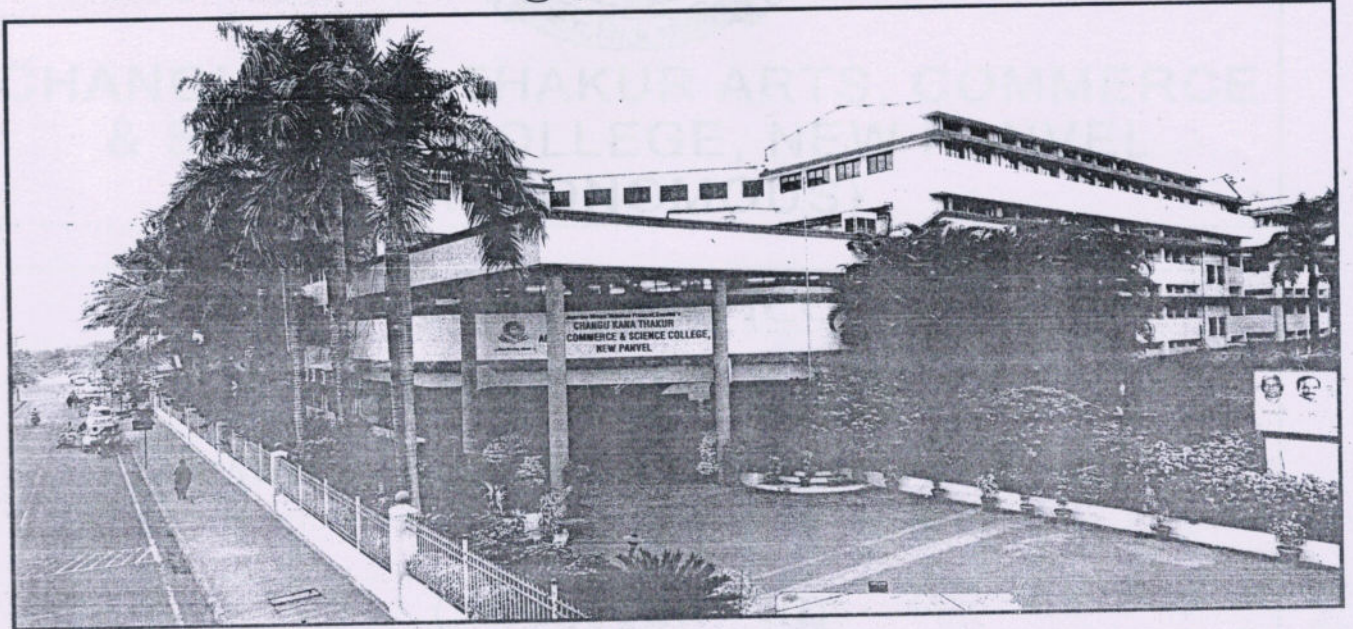
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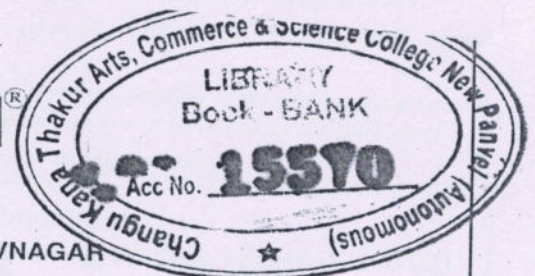
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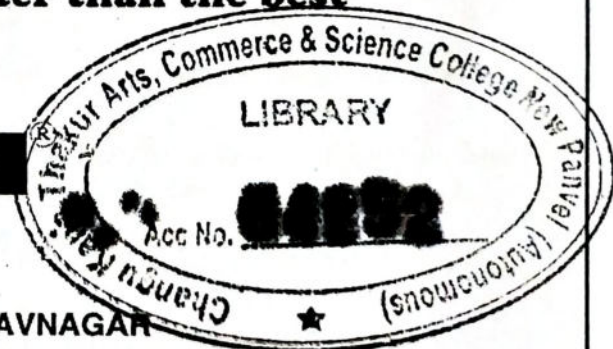
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TAXATION – II

S.Y. B.C.A.F
(SEMESTER – III)

(APPLIED COMPONENT GROUP)
ASSESSMENT YEAR 2022–23

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Karan J. Koli
Changu Kana Thakur Arts, Commerce & Science College,
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In Collaboration with
Late. Shri CA Vijay Singavi
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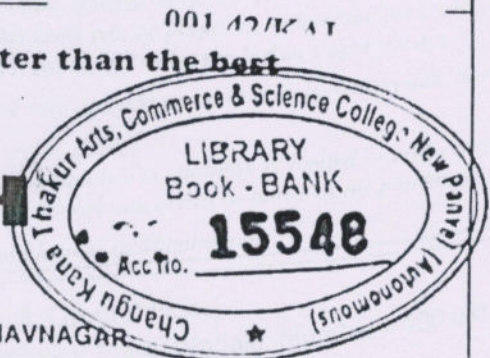
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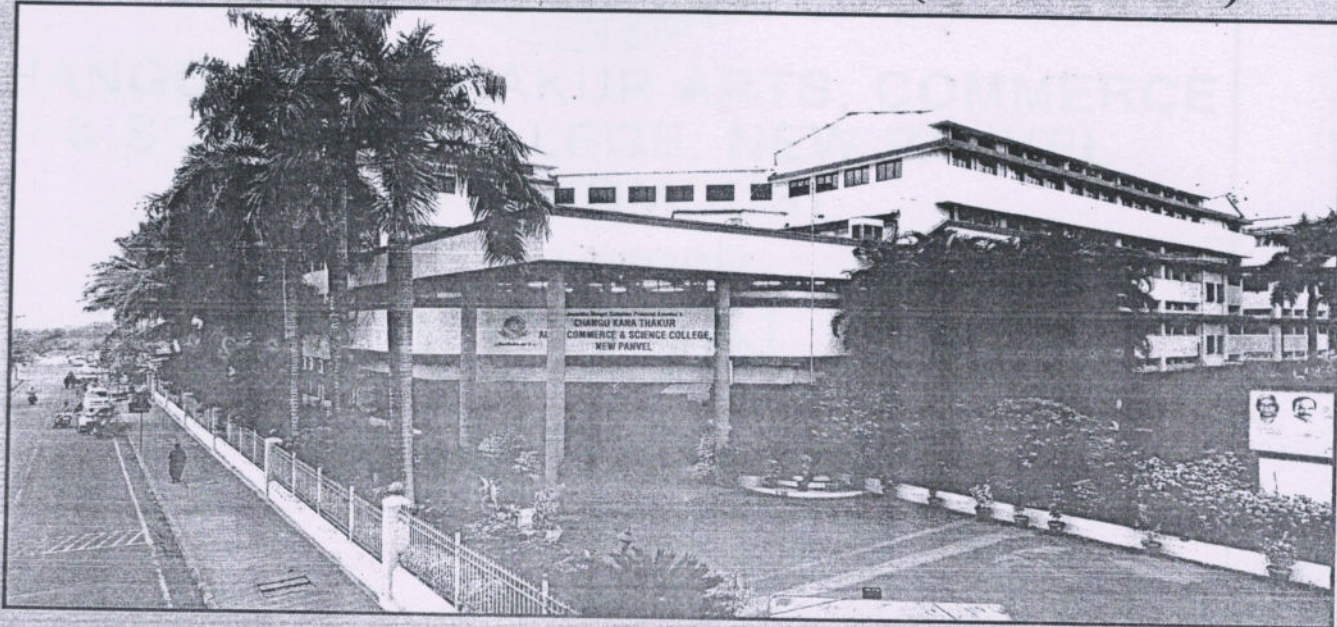
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Elective Courses (EC)

Taxation-III

(Indirect Tax - II)

T.Y. B.C.A.F. Semester-V

(Applied Component Group)

Assessment Year 2022-23

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Elective Courses (EC)

TAXATION – III (INDIRECT TAX – II)

T.Y. B.C.A.F.
(Semester – V)

(APPLIED COMPONENT GROUP)
ASSESSMENT YEAR 2022–23

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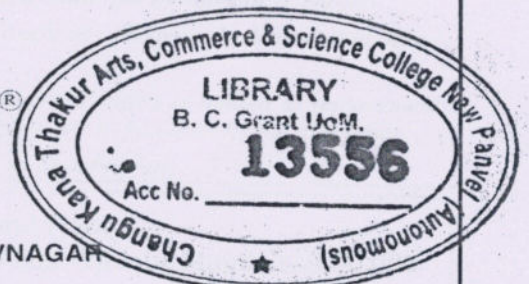
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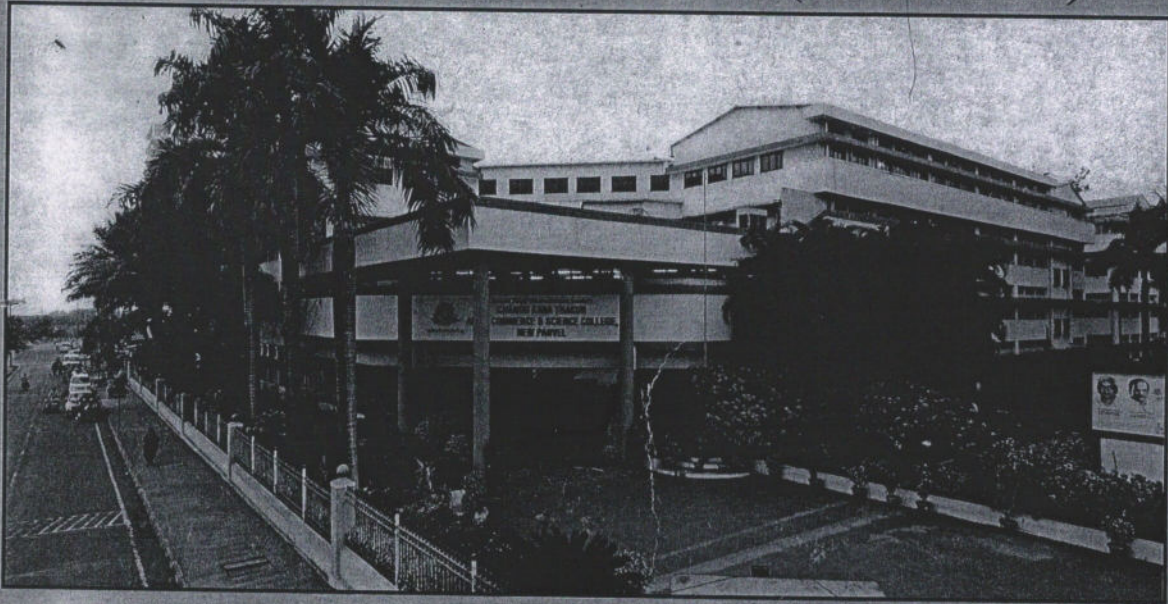
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FINANCIAL ACCOUNTING -IV

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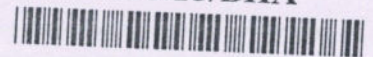
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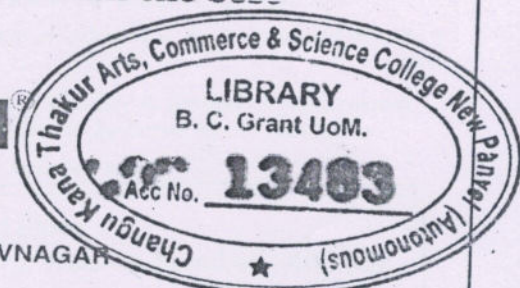
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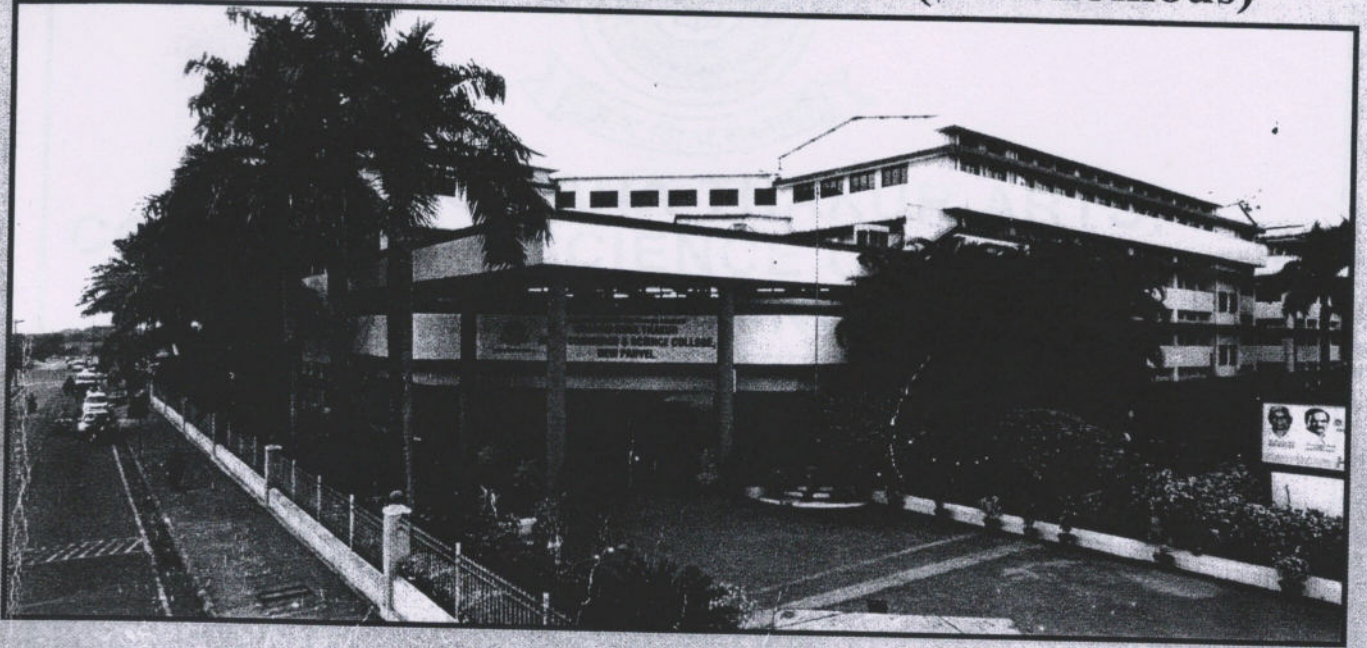
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Business Environment-I

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**BUSINESS
ENVIRONMENT - I**

**(Commerce)
F.Y.B.C.A.F. (Sem.- II)**

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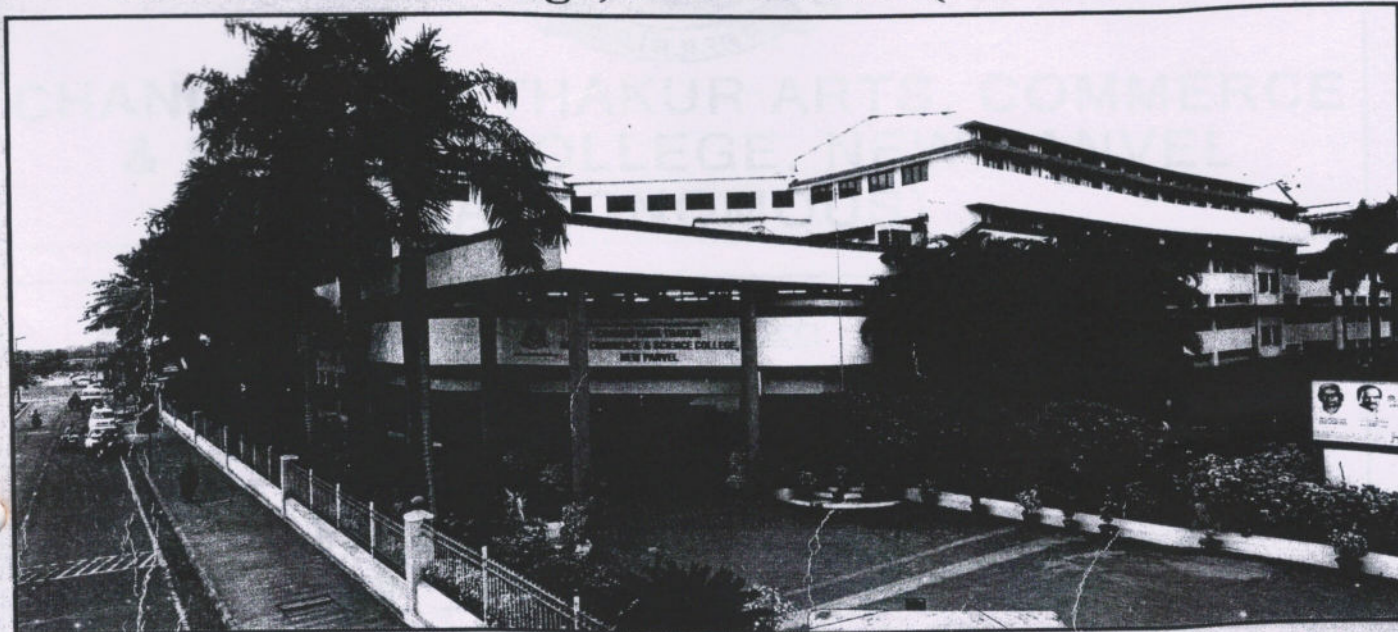
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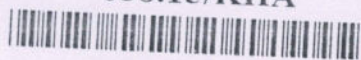
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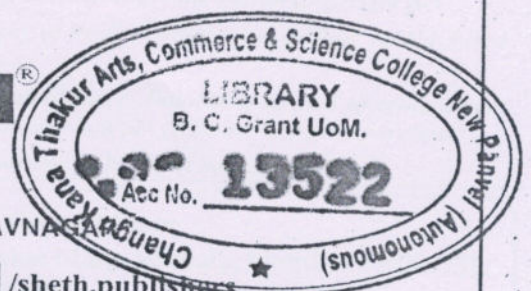
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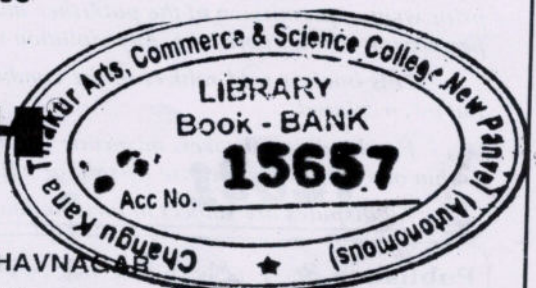
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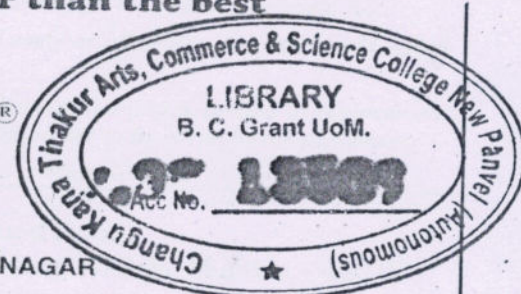
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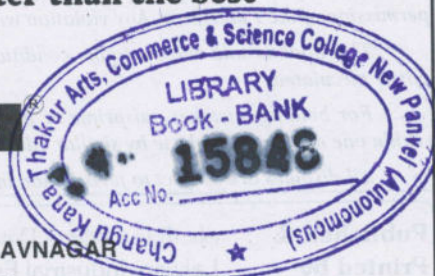
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Sunita Pawar - Salunke

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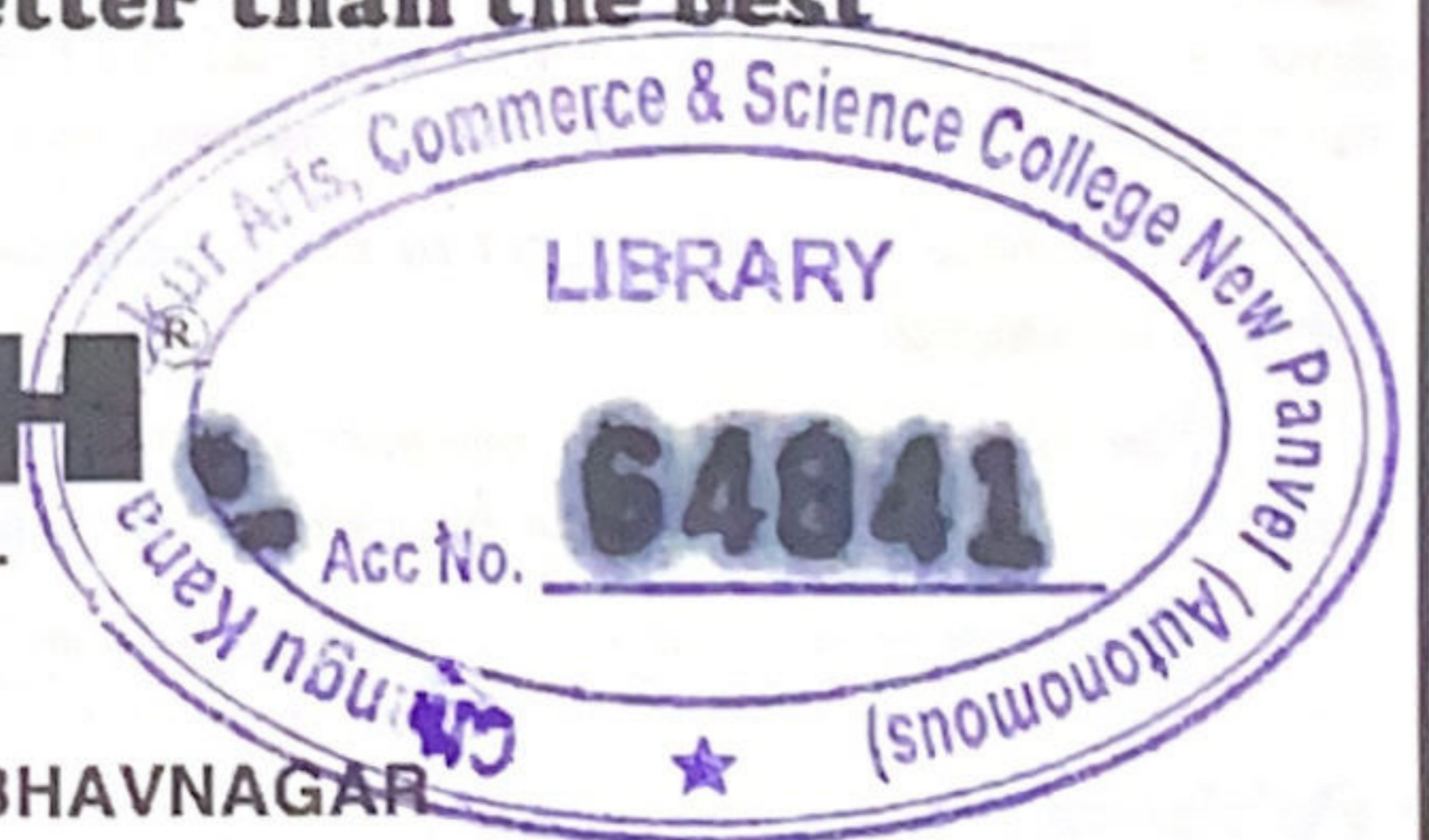
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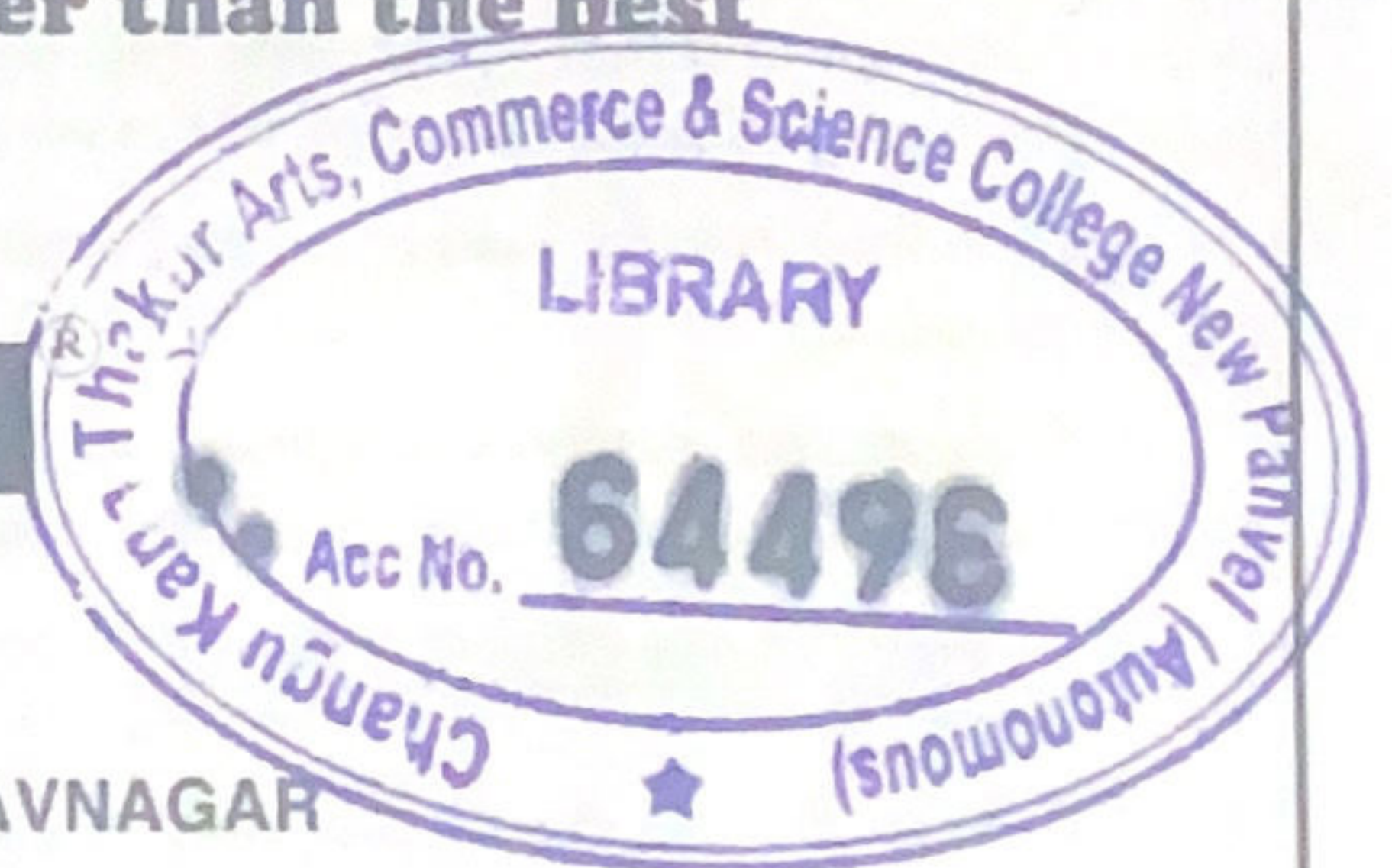
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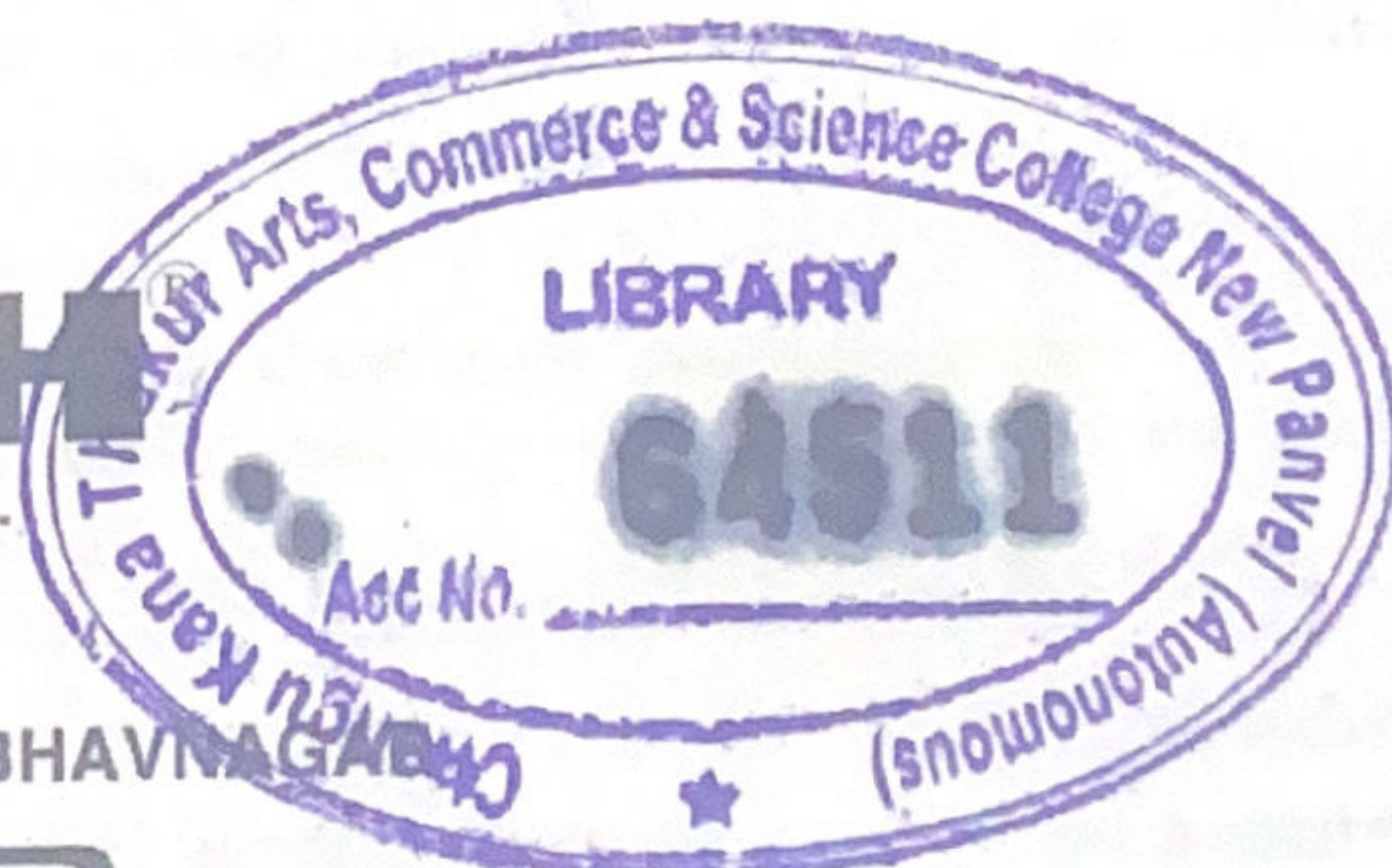
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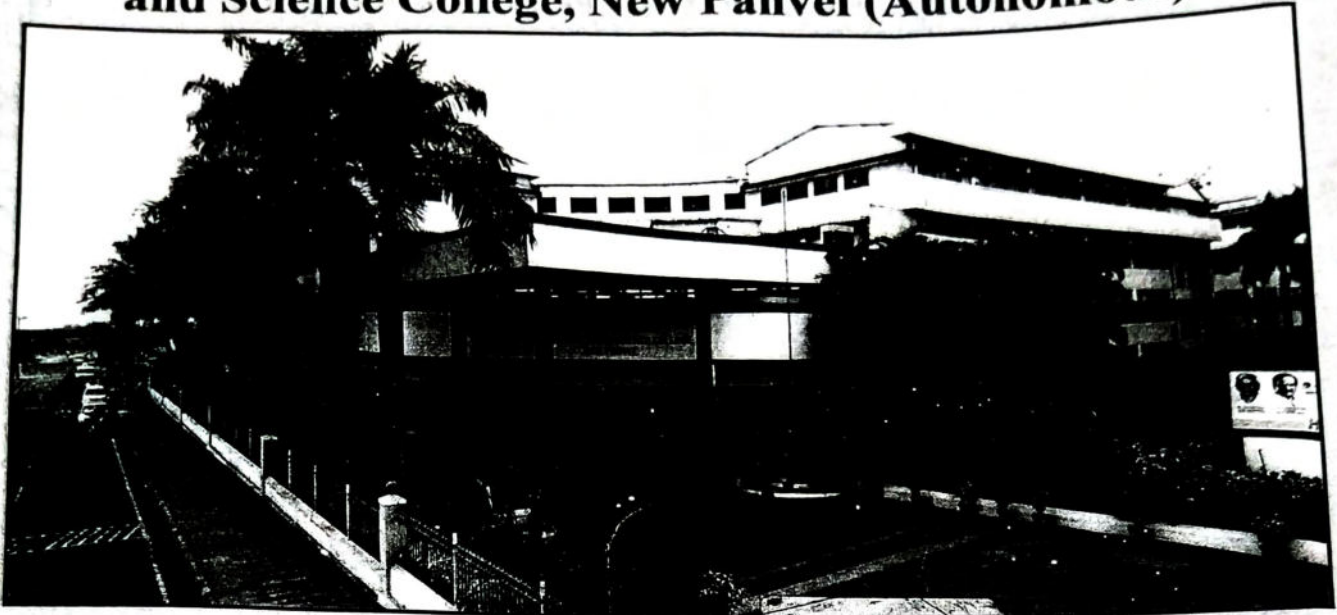
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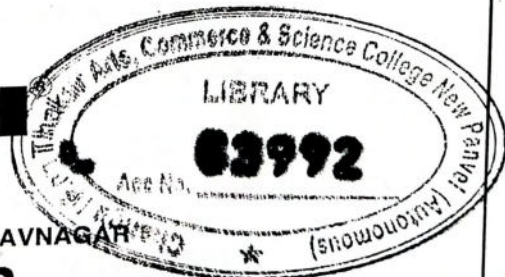
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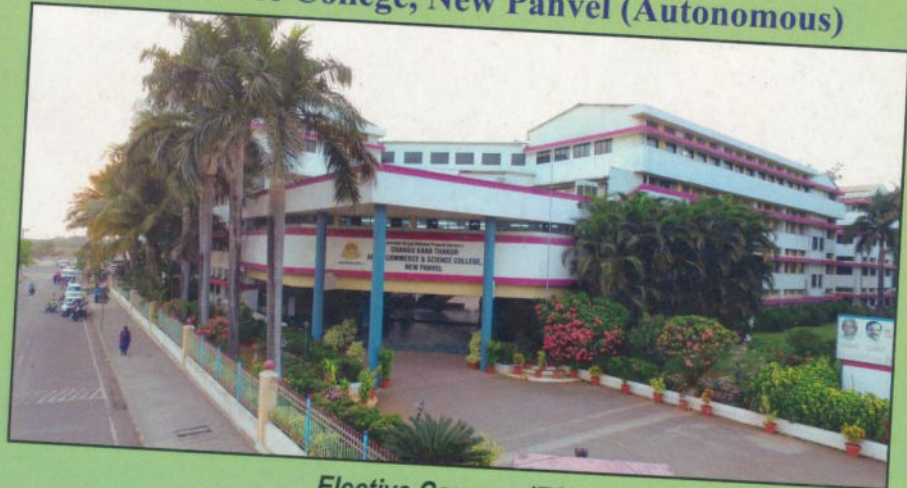
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