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2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Induction Programmes are conducted for the first semester students



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Interaction with Parents at the beginning of the Semester



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Study Tour of Department of Botany



Faculty Members, Students and non-teaching staff at Lloyd's Botanical Garden, Darjeeling, West Bengal

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A visit to Bose Institute, Kolkata as part of curriculum for Tissue Culture Lab Visit for SEM V students of Department of Botany



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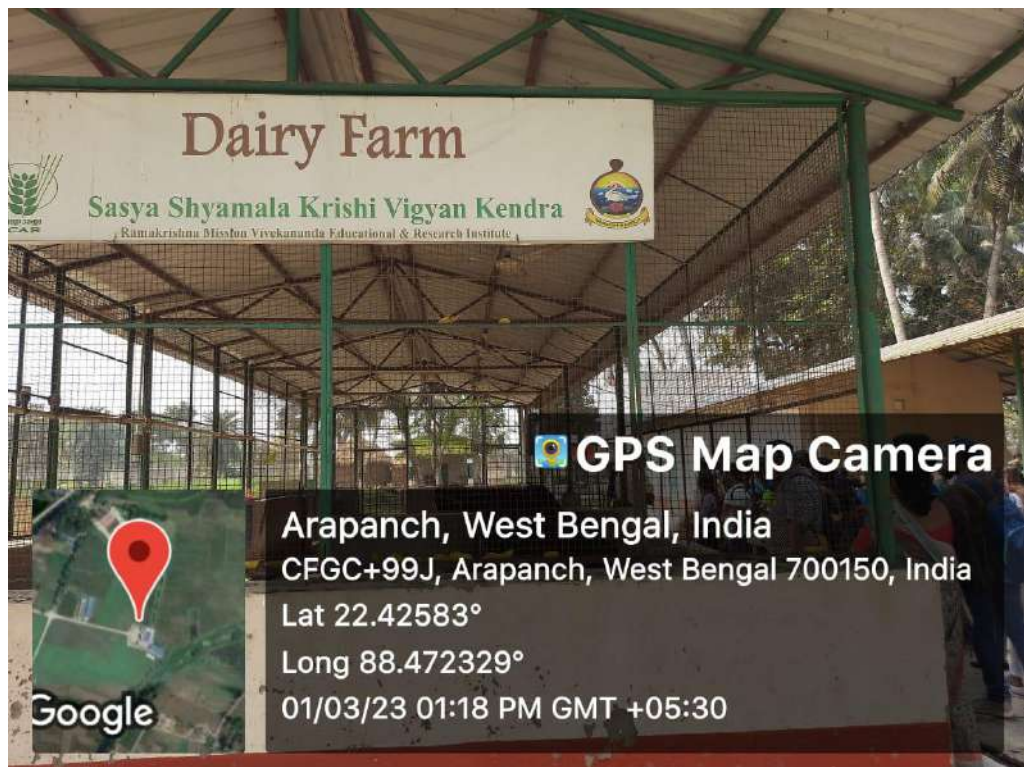
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Study Tour of Department of Zoology



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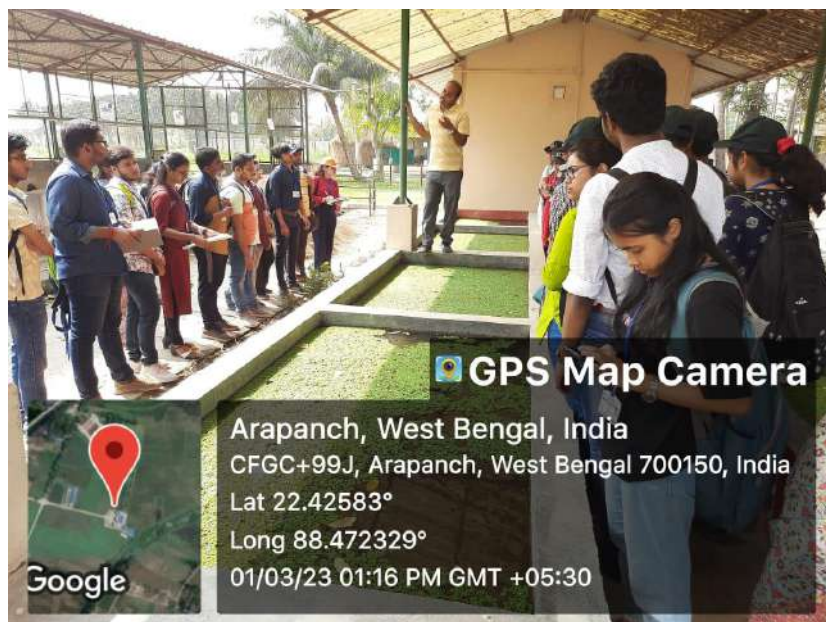
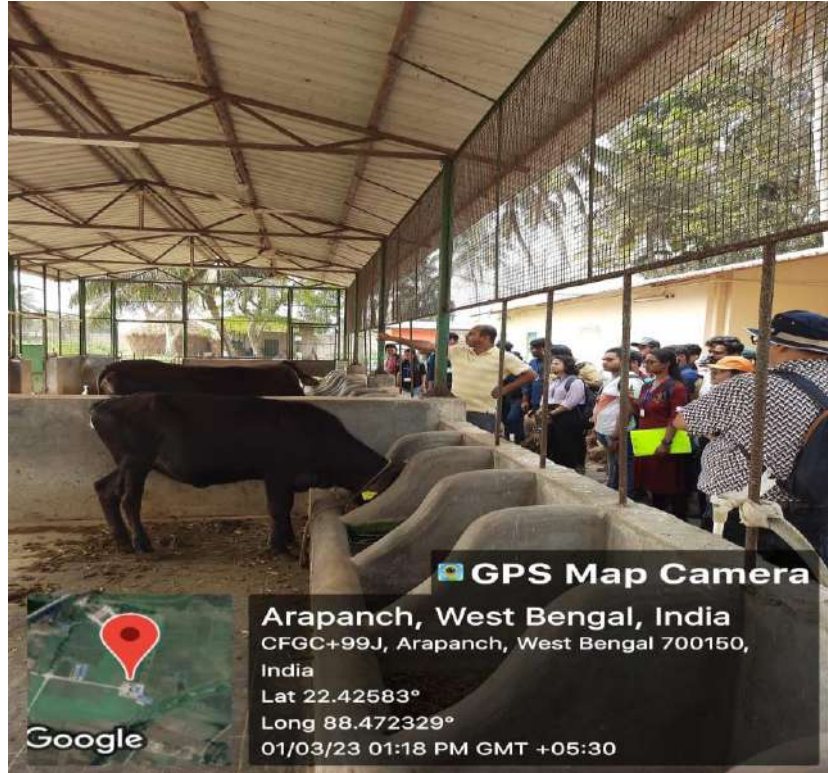


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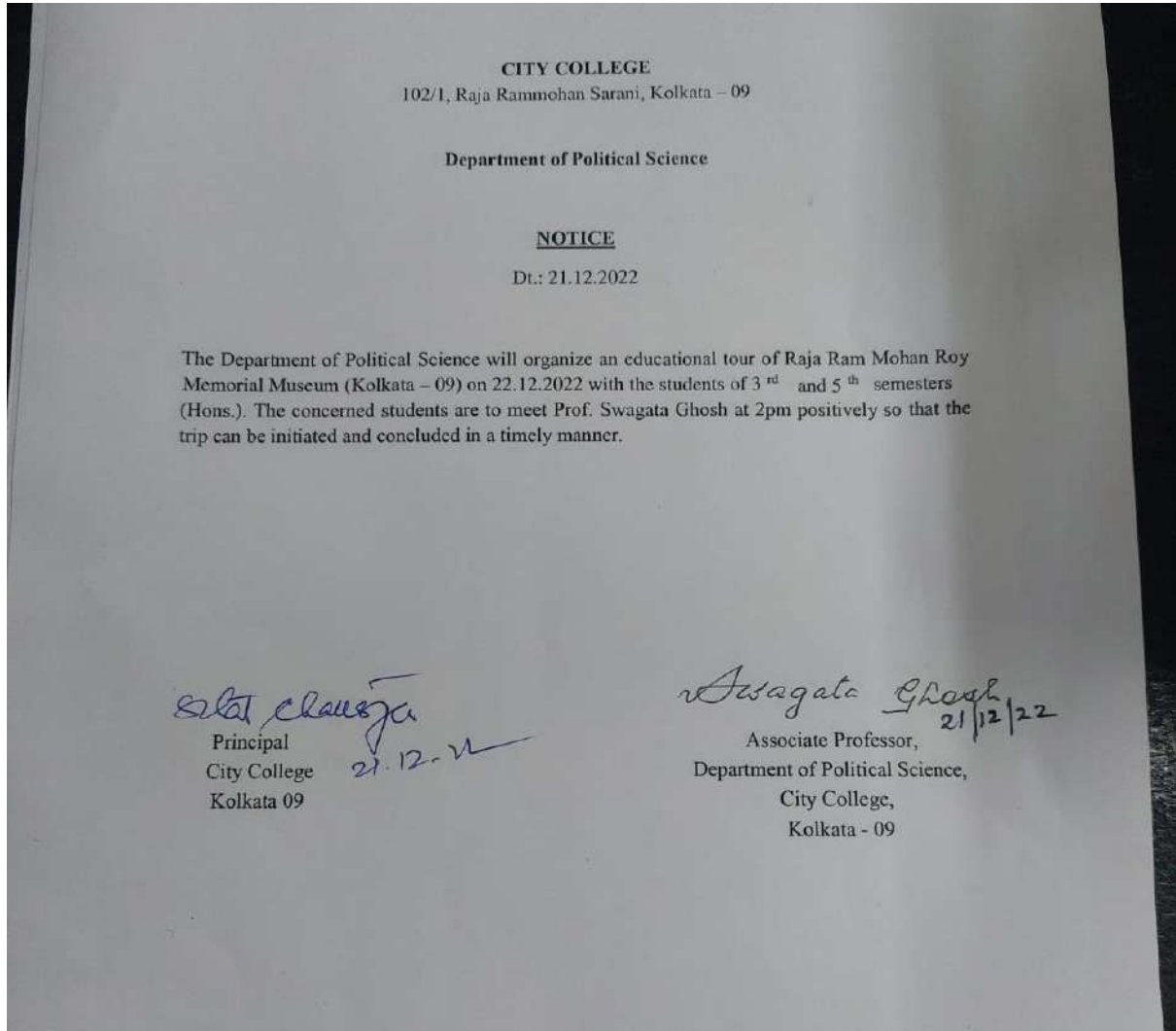


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Students of the Department of Economics participated at Quiz Contest at RBI Museum, Kolkata



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Study Tour of Department of Philosophy



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Students participate in science exhibitions, poster competitions etc



**Satyendra Nath Bose
National Centre
for Basic Sciences**



NATIONAL SCIENCE DAY 2023

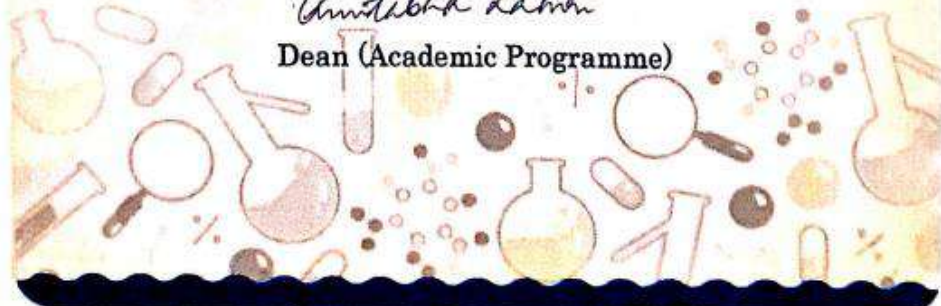
CERTIFICATE OF EXCELLENCE



This certificate is awarded to
Sibsankar Palit
of
City College, Kolkata
for his extraordinary performance in the
“Inter-college Poster Competition” on the occasion of
National Science Day 2023 programme
held on the focal theme “*Global Science for Global Wellbeing*”
on 28th February, 2023 at the Centre.

Anusthabha Lahiri

Dean (Academic Programme)



Block JD, Sector III, Salt Lake City, Kolkata 700106 | Website: bose.res.in

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29th CRSI National Symposium in Chemistry

&

CRSI-ACS Symposium Series in Chemistry


July 07-09, 2022

Abstracts of Posters




Organized by

Department of Chemical Sciences,
 Indian Institute of Science Education and Research (IISER) Mohali, S. A. S. Nagar, Punjab, India



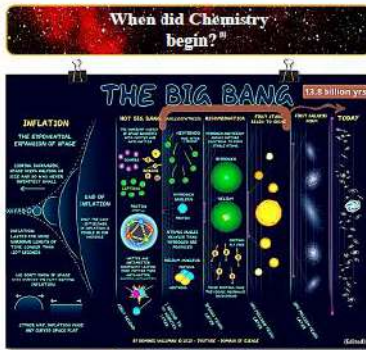
Phosphine as a potential biosignature on Venus: An astrochemical perspective
 Sibsankar Pal^{a,b}, Bruno Curjuri^{a,c}, Subhjit Hazra^{a,d}

^aLife-To & Beyond
^bChemistry Department, City College, University of Calcutta
^cDepartment of Geophysics, Faculty of Science, University of Zagreb
^dUniversity Institute of Pharmaceutical Sciences, Chandigarh University



ACS
Chemistry for Life[®]

When did Chemistry begin?



NUCLEOSYNTHESIS (STELLAR NUCLEOSYNTHESIS)

ASTROCHEMISTRY (MOLECULAR ASTROPHYSICS)

COSMO-CHEMISTRY

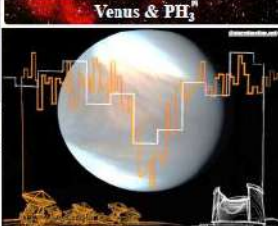
ASTROCHEMISTRY is the study of the census, abundance, and reaction of molecules in the universe and also their interaction with radiation.
 (Interdisciplinary field of study)
 Chemistry ↔ Physics ↔ Astrochemistry ↔ Astrophysics ↔ Biology ↔ Geology ↔ Engineering

SCOPE:
 > How to detect molecules in space?
 > Where to detect the molecules in space?
 > How are molecules formed and destroyed in space?
 > How do molecules attain complexity in space?
 > How many molecules have been found?
 > Molecules as tracers of physical conditions: (density, the temperature in space)?
 > Molecules in space as a pathway to Prebiotic Chemistry (Life as we know it: Astrobiology).

Venus 101


| Planets | Venus | Earth |
|------------------------|---|---|
| Size & Density: | 6051.3 km (radius), 5.24 g cm ⁻³ (surf), 65 kg/m ³ (Atm.) | 6371 km (radius), 5.51 g/cm ³ (surf), 1.1 kg/m ³ (Atm.) |
| Surface temperature: | 450°C | -25 to 45°C |
| Surface Pressure: | 91 bar | 1 bar |
| Acidity of Atmosphere: | Hyper-acidic (H ₂ SO ₄) | Slightly-acidic |

Venus & PH₃



Chemical conditions contrary to Earth can be explored using measurements of trace gases in planetary atmospheres. Venus has temperate but hyper acidic cloud decks. The presence of phosphine (PH₃) gas in the Venusian atmosphere was reported, where any phosphorus should be in oxidized forms. Using the JCMT and ALMA telescopes, single-line millimetre-waveband spectral detections (quality up to ~15σ) were made and had no other plausible identification. Atmospheric PH₃ at an abundance of ~20 ppb was reported.

Presence of PH₃ on planets of our Solar System^{a,b}



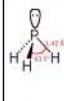
Why Only Venus?

The presence of PH₃ on Venusian cloud decks is unexplained even after rigorous study of steady-state chemistry and photochemical pathways, with no currently known abiotic production routes in Venus's atmosphere, cloud, surface, and subsurface or from lightning, volcanic or meteoritic delivery. PH₃ could originate from unknown photochemistry or geochemistry, or, by analogy with biological production of PH₃ on Earth, from the presence of life. Other initiatives like in situ cloud and surface sampling, looking out for PH₃ spectral features should be carried out.

Issues with PH₃ detection on Venus^{a,b}

The search for other possible signatures of PH₃ in the infrared range using the TEXES revealed measurements with an upper limit (at a 99.7% confidence level) on the abundance of phosphine in Venus's upper atmosphere of only 5 ppb. Clearly, the earlier detection that claim 10 parts per billion was, at best, a serious overestimate. The re-analysis of the 247 GHz ALMA observations of Venus provides no statistical evidence for phosphine in the atmosphere of Venus.

PH₃ 101



- ◆ Highly toxic to life as we know it;
- ◆ Highly reactive;
- ◆ Relatively non-polar than NH₃;
- ◆ P-H bond energy is high therefore a PH₃ very stable;
- ◆ PH₃ dissociates at 450°C;
- ◆ Common by-product of anaerobic bacteria (on Earth);
- ◆ Found in decaying organic matter;
- ◆ Garlic-like smell (due to P₂S₅).

Synthesis: 3 KOH + P₄ + 3 H₂O → 3 KH₂PO₂ + PH₃
 3 NaOH + P₄ + 3 H₂O → 3 NaH₂PO₂ + PH₃

PH₃ production by disproportionation of phosphorous acid (laboratory preparation):
 4 H₃PO₃ → PH₃ + 3 H₃PO₄

Missions to Venus

- ◆ Venera 9 (1975) First orbiter of Venus and first images from the surface of another planet.
- ◆ Magellan (1990) Global high-resolution maps of features through radar imaging.
- ◆ Shukrayaan-1 (Upcoming) Orbiter + Atmospheric (2024) ISRO balloon.

Conclusion & Acknowledgement

In a nutshell, Astrochemistry is a multidisciplinary emerging field that aims to deal with chemistry in the extreme space environment. This understanding can eventually help us trace the pathway to 'Prebiotic Chemistry'. Furthermore, gradual improvement in instrumentation, simulations, and results from future Venusian missions will most probably provide conclusive evidence of the presence of PH₃ in its cloud decks and its potential as a biosignature.

Special Thanks to Dr. Arindam Bana, Dr. Pampa Guha (Faculty at Dept. of Chemistry, City College, Kolkata, WB, India), and my Mentor Mr. Ryan Kirby (Visiting Scholar at BMSIS, US, and Mentor at AOI) for their valuable input.

Bibliography:

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 5. Kouchkov, C. I. *Planet. Atmospheres* 2018, 1, 1-4
 6. Kouchkov, C. I. *Planet. Atmospheres* 2018, 1, 1-4
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 8. Kouchkov, C. I. *Planet. Atmospheres* 2018, 1, 1-4
 9. Kouchkov, C. I. *Planet. Atmospheres* 2018, 1, 1-4
 10. Kouchkov, C. I. *Planet. Atmospheres* 2018, 1, 1-4

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REDEMPTION NOTES

Human-Wildlife Conflict – Remediation with special emphasis on the Role of Youth and Legalization of Legality, A Mini-review

Mihika Neogi, Ambar Dey, Debopriyo Soma, Debopriyo Das, Debashish Karmakar*
 Department of Zoology, City College, 102/1 Raja Rammohan Sarani, Kolkata – 700 009

ABSTRACT

Human-wildlife conflict (HWC) has emerged as a global problem in the last few decades. Conflicts between two different species for food and space is a natural phenomenon. However, with the rapid increase in the relative interactions between human and wild animals, the conflict has become a global problem. In India, the conflict has become a major threat to the survival of many wild animals. This review work is basically focused on how very common human-wildlife conflicts, mainly involving wild animals, have become a global problem. The review work is basically focused on how very common human-wildlife conflicts, mainly involving wild animals, have become a global problem. The review work is basically focused on how very common human-wildlife conflicts, mainly involving wild animals, have become a global problem.

Keywords: Wildlife, Conflict, Remediation, Youth, Legality

SELECTION OF KEY DRIVERS AND PRESSURES THAT LEAD TO HWC

MAN-ELEPHANT CONFLICT IS THE PRICE OF DEVELOPMENT

Human-Elephant conflict – An Overview

The Asian Elephant has evolved and lived in the Indian subcontinent for more than a million years. On an average, the species travel 20-25 km/day, forage 100-200 kg/day and requires 80-150 liters of water every day. There are 27 Elephant Reserves in the country covering 60,000 sq km and yet we see 60 deaths annually on average and 300-400 human casualties every year.

Consequences due to this conflict

- Human-elephant conflict caused 1,401 human and 301 elephant deaths in India from 2016-2020.
- Some 115 elephants and 457 people died in 2018-19, while 99 elephants and 290 people died in 2019-20.
- In 2020/21 (upto December 2020), 87 elephants and 250 people lost their lives in human-elephant conflicts.
- Elephants started an average of 350 sq km of crop intensification for the last three years (2018-19).
- 40-50 elephants are killed annually within crop fields.
- 66 elephant fatalities were reported in West Bengal State from 2004 to 2015; these elephants were hit by traps that were running on tracks through forest and crop lands.

Conflict is also Location specific

- In Assam, the elephants have lost 20% of their historical foraging grounds and further their corridors are getting narrower. This has led to a rise in human-elephant conflict in agricultural areas.
- In Karnataka, the human-elephant conflict is very recent as the presence of elephants is relatively new in the state.
- In Andhra Pradesh, the human-elephant conflict is increasing. Madhav and Sankhalingam hills are broken by the increasing population of elephants in the northern part of the state. This has led to increasing human-elephant conflicts.
- The elephant-elephant conflict during the Covid-19 lockdown was announced on March 26, 2020. Eight of the 10 elephant fatalities and human-casualties in northern West Bengal. At the same time, several human fatalities and human-elephant conflicts. These incidents have highlighted the importance of human-elephant conflict in the region.

Human-Leopard conflict – An Overview

Over the past decade, there have been increasing conflicts between humans and leopards (Panthera pardus) in India. Leopards have encroached into villages as land development has increased and populations of wild prey have been reduced by the introduction of livestock. Leopards are feared and known to attack humans, livestock and property. For these reasons, nearly 200 leopards are killed in India every year.

Two regions with different patterns of human-leopard habitat and Pattern of attacks

- The two regions assessed were Pauri Garhwal and North Bengal, which are in the western and eastern part of the Indian Himalayas, respectively.
- Pauri is very bio-diverse, ranging from dry to moist-temperate forests that are ideal habitats for leopards.
- The towns and villages in Pauri are in low-lying plains, essentially intertwined with the natural habitat of the wild leopard.
- In North Bengal, there is a clear distinction between human villages and leopard habitat, yet tea estate gardens (an important tourist attraction here, but is still harvested), are very close to the leopard habitat (even that leopards are extremely territorial, it is evidently dangerous for humans to live too close to them).
- Based on local government records, from 2004-2019, there was a much greater number of leopard attacks on humans in Pauri (62%) than in North Bengal (37%). These percentages were collected based on records available from local governments. In Pauri, the most common victims of leopard attacks were children and women, while in North Bengal it was adult tea estate workers.

Agricultural lands not to be created near the wildlife area

Relocation of the tribal people from wildlife

- Rehabilitation projects are especially challenging for the Indian government, with an estimated 43 million people sharing spaces with mega fauna such as tigers, leopards and elephants within protected areas. Current Indian government policies focus on individual, as a combined cash and in-kind approach on package for families voluntarily relocating.
- Wirth (2018) demonstrated a need to have better education, healthcare, roads, agriculture, less human-wildlife conflict and the government-led packages.
- Government-dependent human habit in the area move due to high human-wildlife conflict, present small settlements for the agricultural population, and larger homesteads to avoid government package benefits.

Legalized implementation of legitimacy

In human-wildlife conflict related calamities, governments have made provisions of relief packages for the people who may have been affected.

- Even though it is an ideal solution on paper, when one actually observes the ground reality, it can be seen that a lot of money allocated for damages due to human-wildlife conflict does not end up reaching the affected people. There are two reasons why this is happening:
 - Lack of awareness among the village residents that such a compensation package is available from the government
 - Many village residents are uneducated or with and find it tedious and expensive to get the required paperwork
- An immediate solution would be to make the process of acquiring relief funds easy for the people affected in conflicts. This could be done through:
 - Providing a helpline number for citizens and farmers whenever there has been damage or death to a livestock.
 - Have a team of field agents that visit survey damage, and receive the input at the spot.
- Not only the rapid publication of Acts, Legislations and Amendments, strict and regular monitoring of these legislations from paper to people of wildlife to realize the habitat degradation through dependence on the forest for fuel, timber, livestock grazing and conversion of natural forest into monoculture plantation of tea, cashew, etc.
- To stop the human trespasses like intrusion, poaching and forest drying, wildlife protection like implementation for at least 6 months or a huge amount of time be implemented and the responsibilities be distributed on local community and the forest guards to be ensured covered of a range to stop such illegal crime.
- Supply of crackers, torches, bearable drums, etc. from the side of Government to the local communities to reduce the conflict in cooperatively harmless manner, keeping an eye too that the materials are being judiciously used for which it is supplied.
- Construction of physical barriers, such as barbed wire fence, solar powered electric fence, bio-fencing using cactus, boundary wall etc. to prevent the entry of wild animals in localized human habitations.

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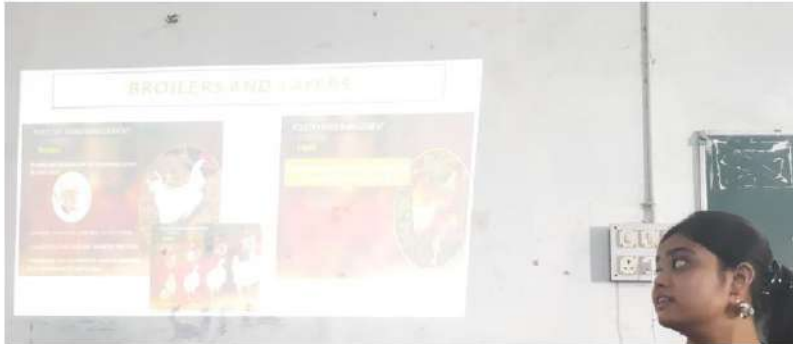


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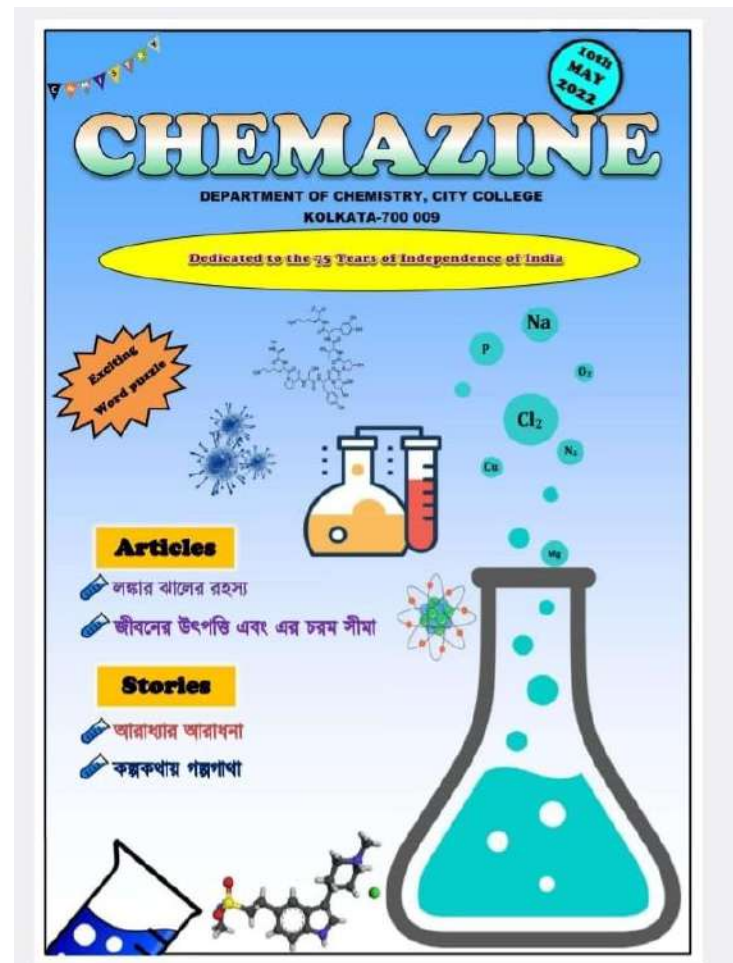
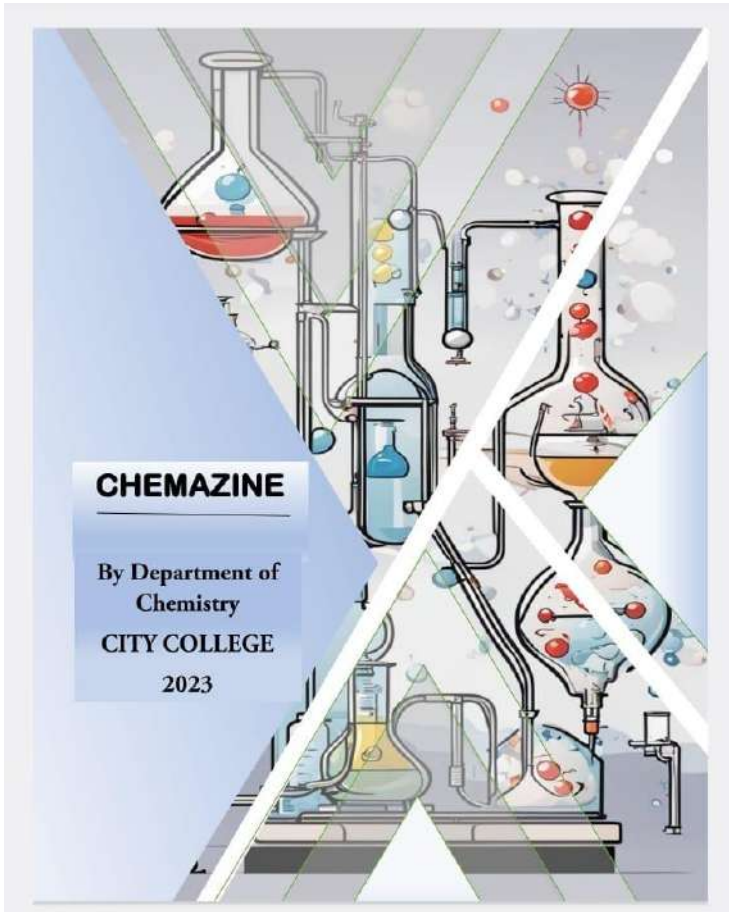


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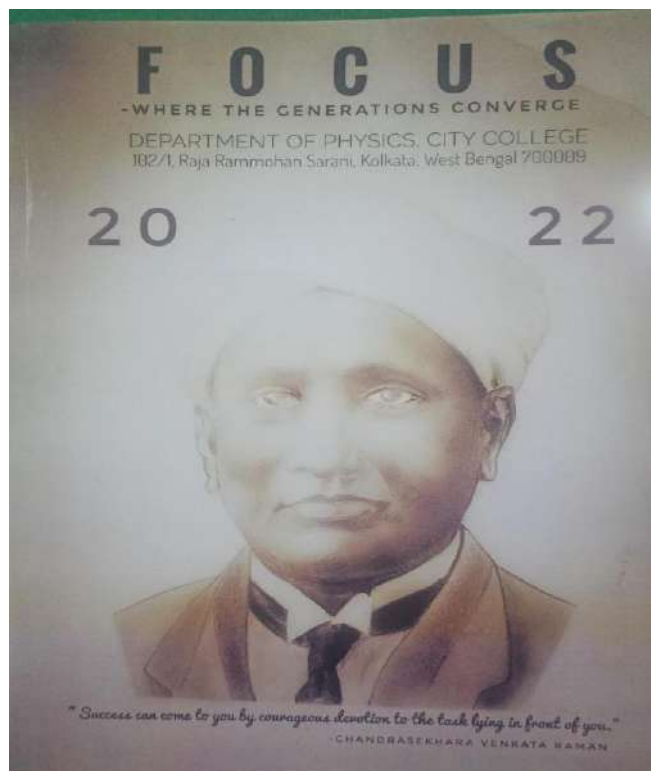
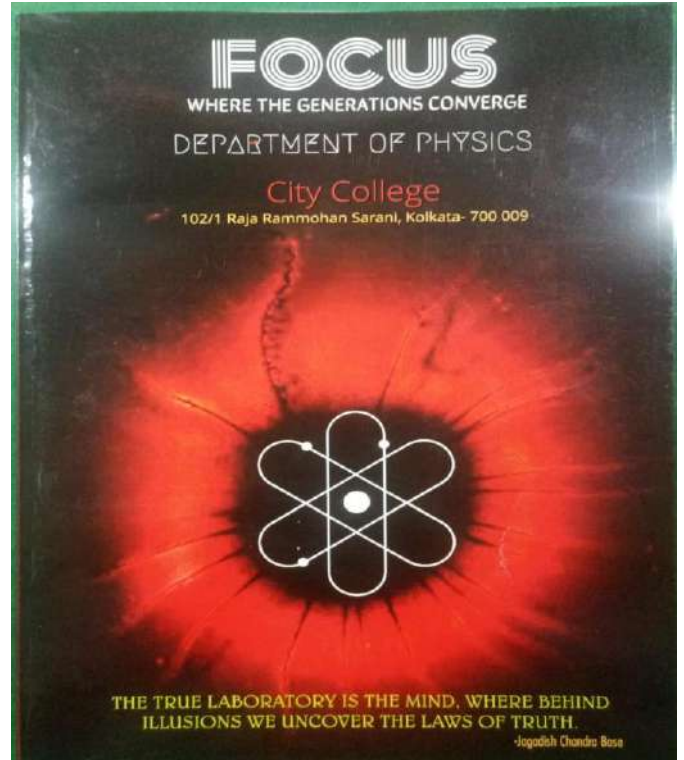
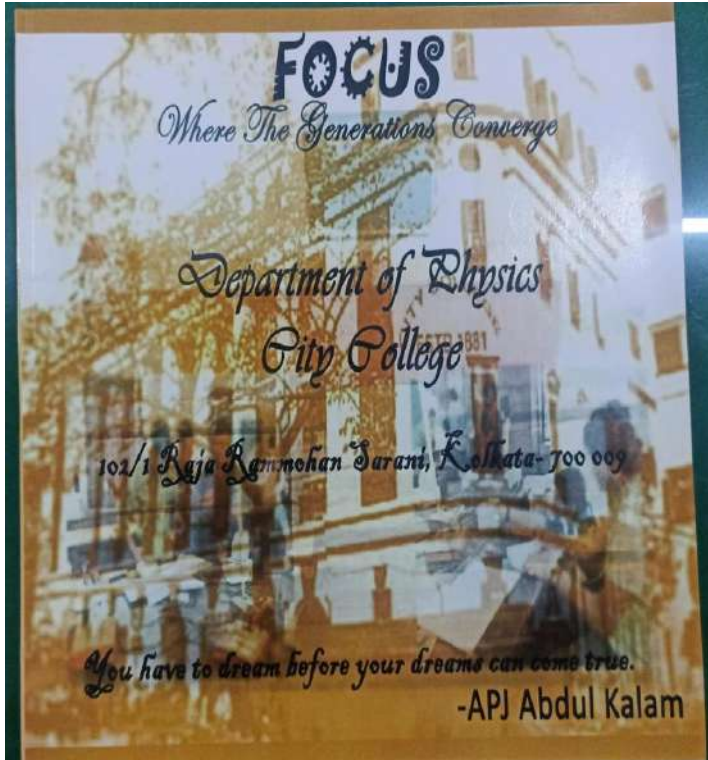


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Students regularly participate in different sports activities



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THE CRICKET ASSOCIATION OF BENGAL Appendix - E
Dr. B.C.Roy Club House
Eden Gardens, Kolkata - 700 021

PLAYER'S IDENTITY CARD FOR THE SEASON 2022-2023

| | | |
|------------------|---|------------|
| REGN. NO. & DATE | 55/9337/16 | 03/11/2022 |
| Code & Name | 9337 - SOUVICK MITRA | |
| Father's Name | SUJIT MITRA | |
| Date of Birth | 27/01/2005 | |
| Address | 7 PATBARI LANE KAMARHATI ARIADHA 700057 | |
| Telephone No. | 9681376889 | |



| BATTING | BOWLING | SPECIALIST IN |
|---------|---------|---------------|
| R | RS | BT |

(Signature of the Player) *Souvick Mitra*

(Signature of the Hony Secretary OR Authorized Representative of the Managing Committee of the Club) *Naresh Prabhulal Ojha*

Name of the Affiliated Unit **ARIADHA SPORTING CLUB**

Particulars given in player's identity card based on player's registration form (2022-2023) which is given by the players and club concerned.

Naresh Prabhulal Ojha
Hony. Secretary

MIDNAPORE SWIMMING CLUB Estd. - 1948 Keranitola :: Midnapore :: Paschim Medinipur

On the Occasion of **Platinum Jubilee Celebration**

ALL BENGAL CLUB INVITATIONAL AQUATIC MEET

Date - 5 th, 6 th & 7 th May 2023 // Venue - Midnapore Swimming Club

Certificate of Honour

Awarded to Rounik Saha

Representing The Central Swimming Club Secured 2nd.

Place in 'Water Polo' on 6 th & 7 th May 2023.

Amarnath Chatterjee
Working President, Midnapore Swimming Club
&
Chairman, Platinum Jubilee Celebration Committee

Pallab Kishore Chatterjee
Secretary
Midnapore Swimming Club



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Principal
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Faculty members use ICT tools for effective Teaching-Learning process

Department of Bengali



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Department of Chemistry



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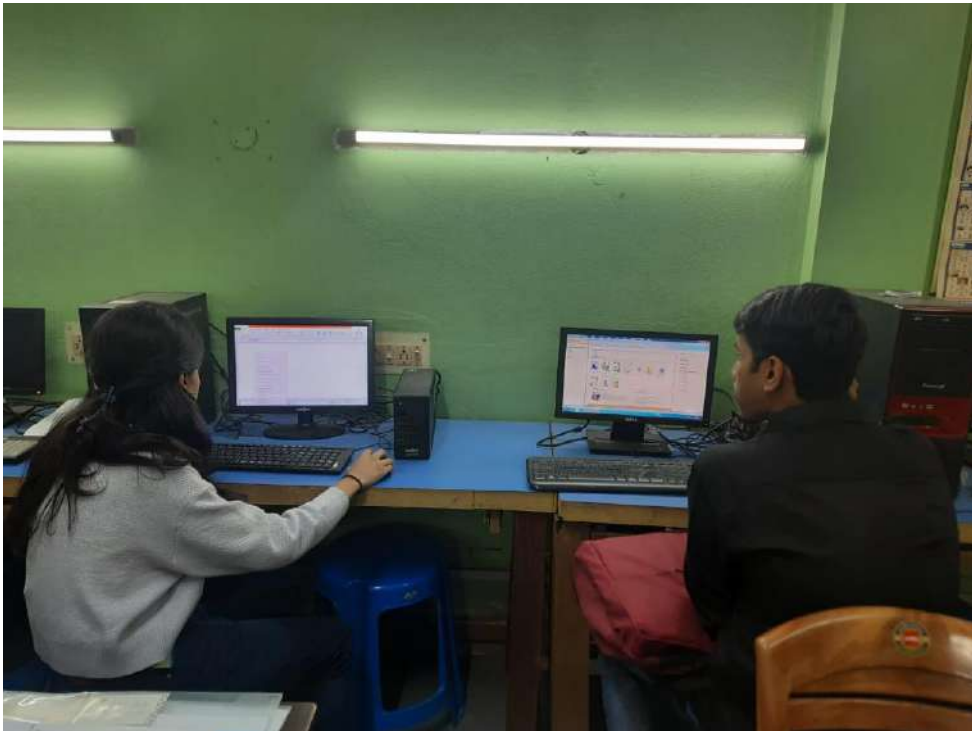
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Department of Commerce



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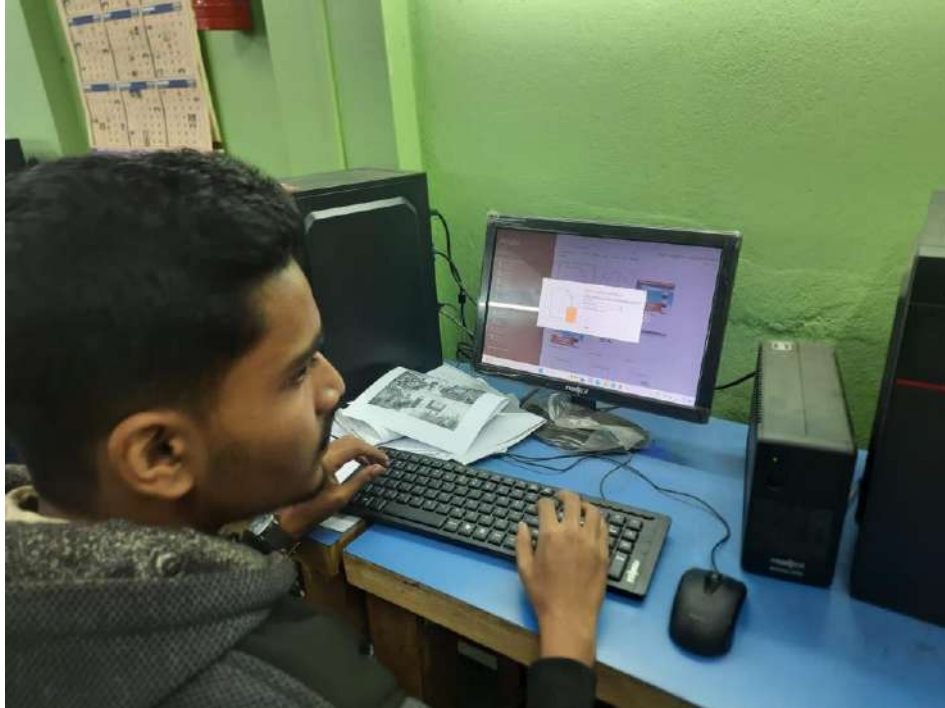


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Department of Zoology



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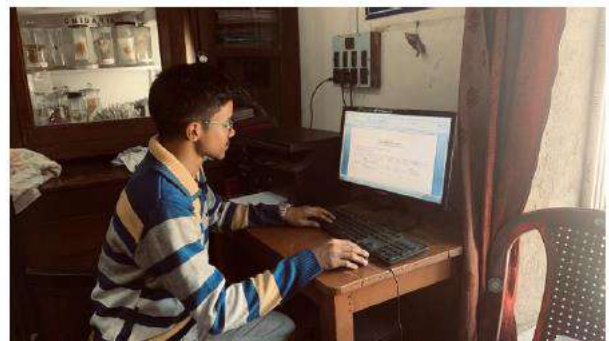
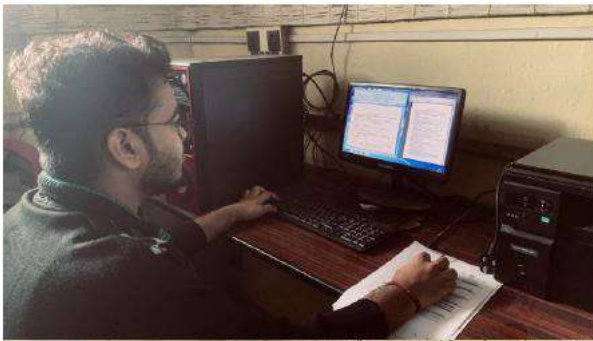


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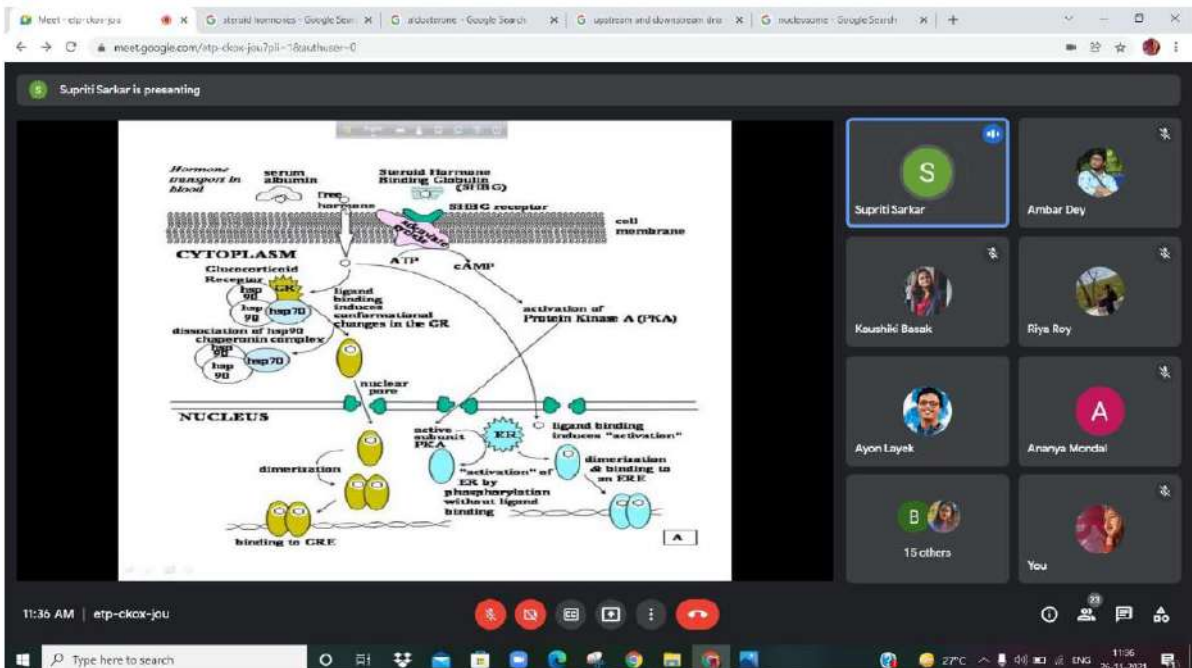
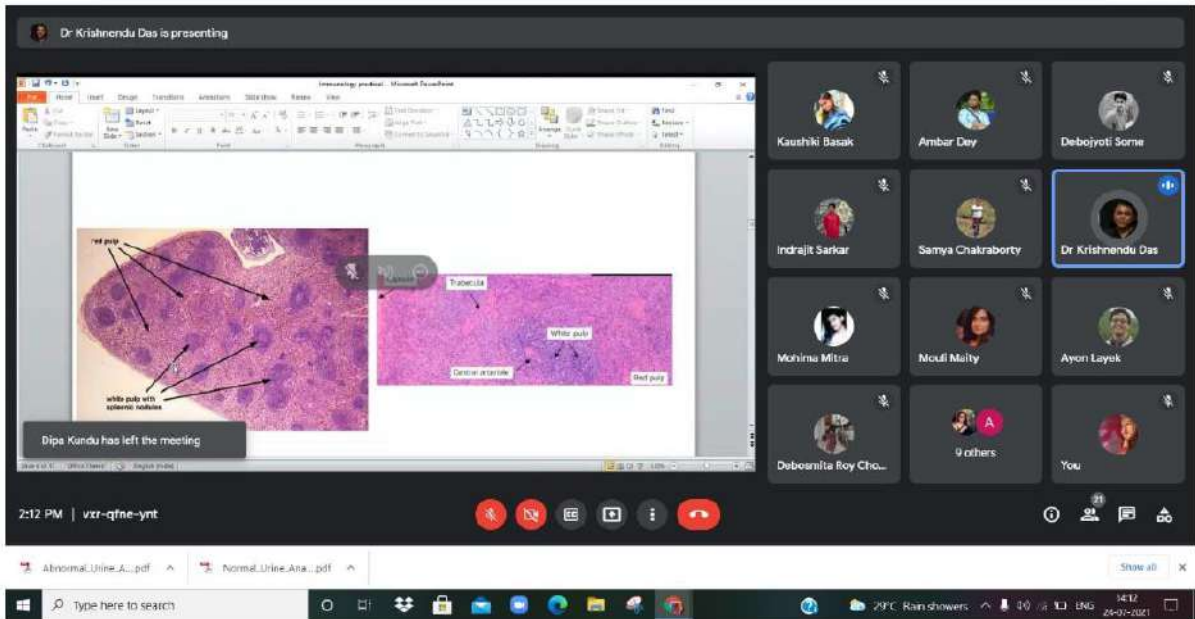
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During COVID-19 pandemic, Online classes were taken regularly. The institution thereafter follows blended mode (offline and online) of teaching-learning process.



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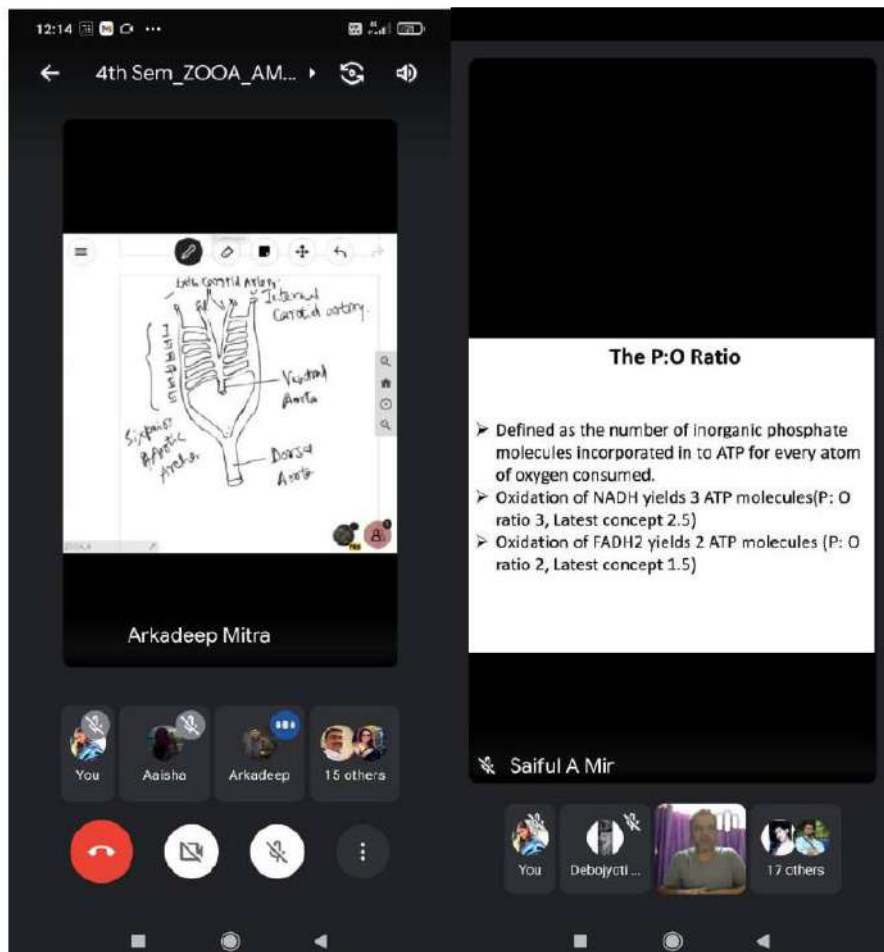


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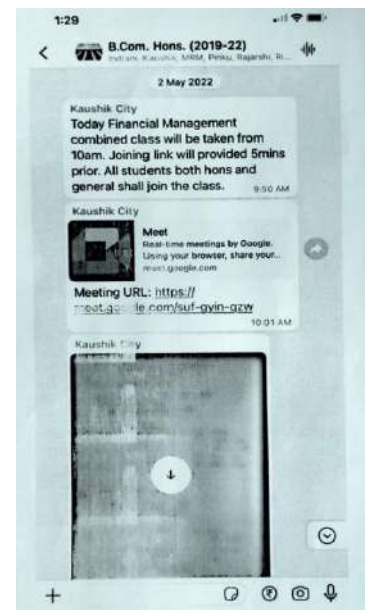
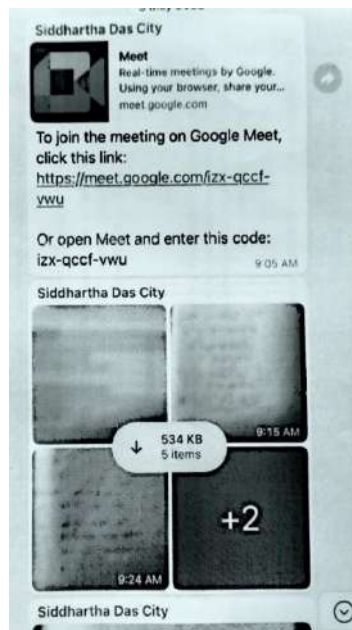
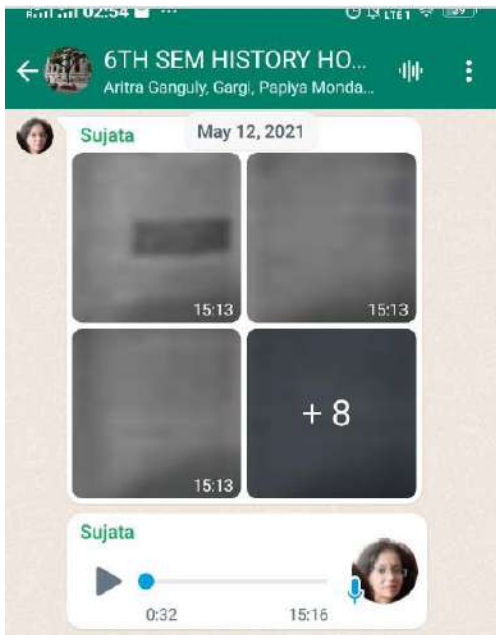
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Notes are shared through different online platform (College website, e-mail, WhatsApp etc)

| Date | Subject | Semester | Section | Unit | Topic | Action |
|------------|----------------|--------------------|--------------|-----------------------|---|------------------------|
| 03.02.2021 | Mathematics | Sem-I | CCI (Theory) | Unit-III | Problems and Solutions on Vector Operators. | Detail |
| 03.02.2021 | Mathematics | Sem-I | CCI (Theory) | Unit-III | Problems and Solutions on Vector Differentiation. | Detail |
| 03.02.2021 | Mathematics | Sem-I | CCI (Theory) | Unit-III | Problems and Solutions on Vector Equations. | Detail |
| 29.01.2021 | B.Com. | Sem-III | -- | Chapter-VI Unit-IV | IFS - Financial Services | Detail |
| 29.01.2021 | B.Com. | Sem-III | -- | -- | IFS - Glossary | Detail |
| 29.01.2021 | Economics | Sem-V | -- | -- | Financial Economics : Spot & Forward rates and IRPT | Detail |
| 22.01.2021 | B.Com. (Hons.) | Sem-III | -- | Chapter-V | IFS (Lesson-1) | Detail |
| 22.01.2021 | Economics | Sem-III | -- | -- | Data Management Lesson-1 | Detail |
| 22.01.2021 | Economics | Sem-III | -- | Unit-V | Data Management WPI & CPI | Detail |
| 13.01.2021 | Chemistry | Sem-III Gen-SEC | -- | -- | Analysis of Soil | Detail |
| 13.01.2021 | Chemistry | Sem-III Gen-SEC | -- | -- | Analysis of Water | Detail |



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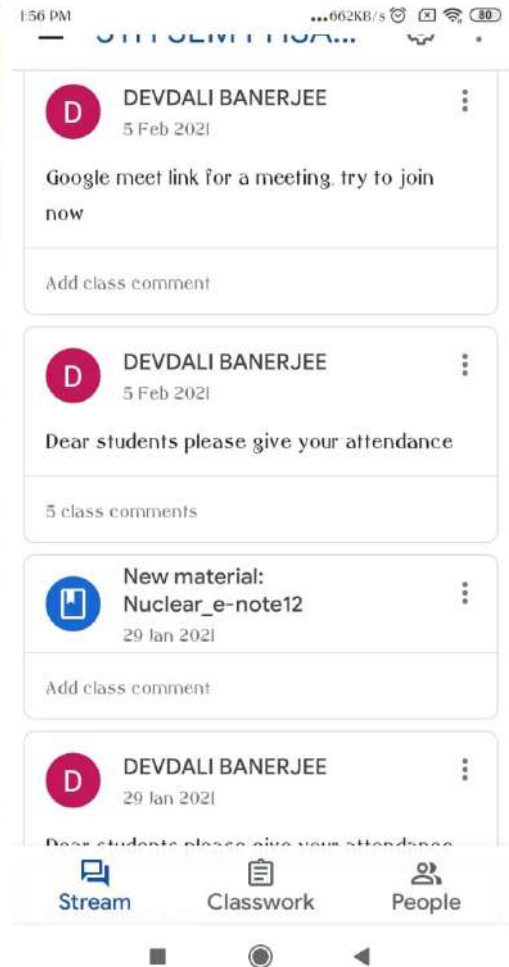
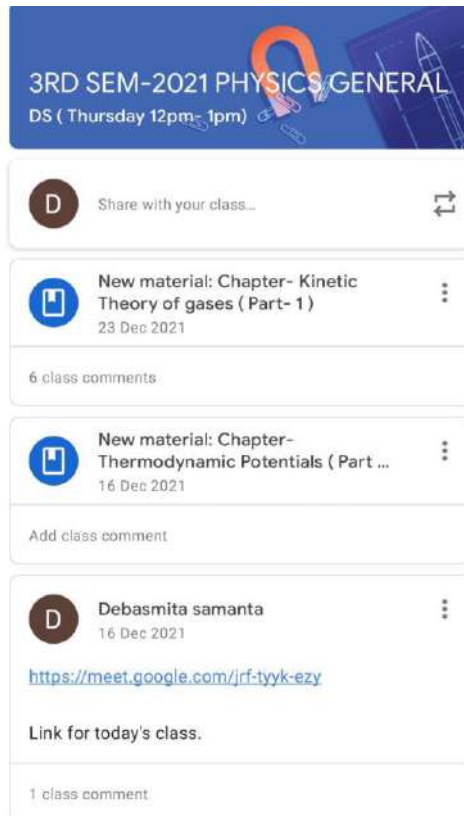
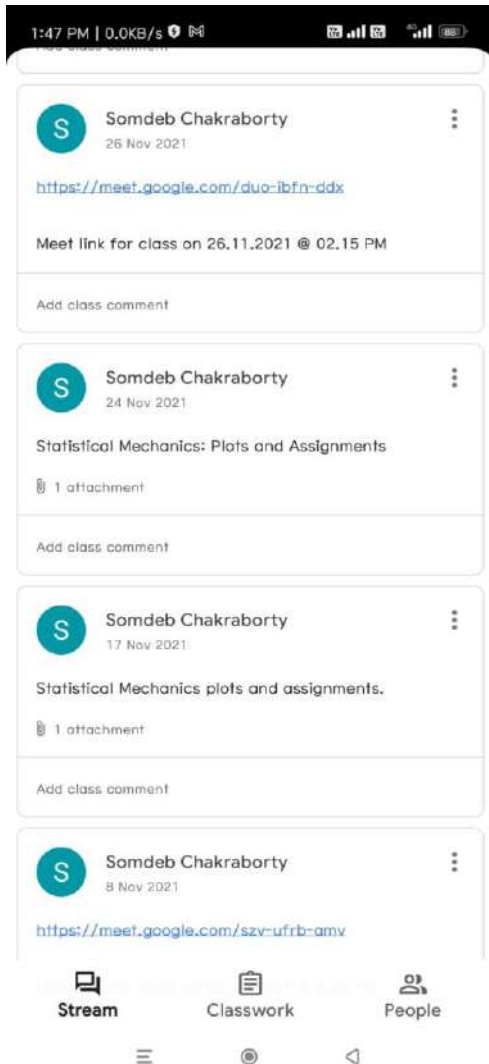


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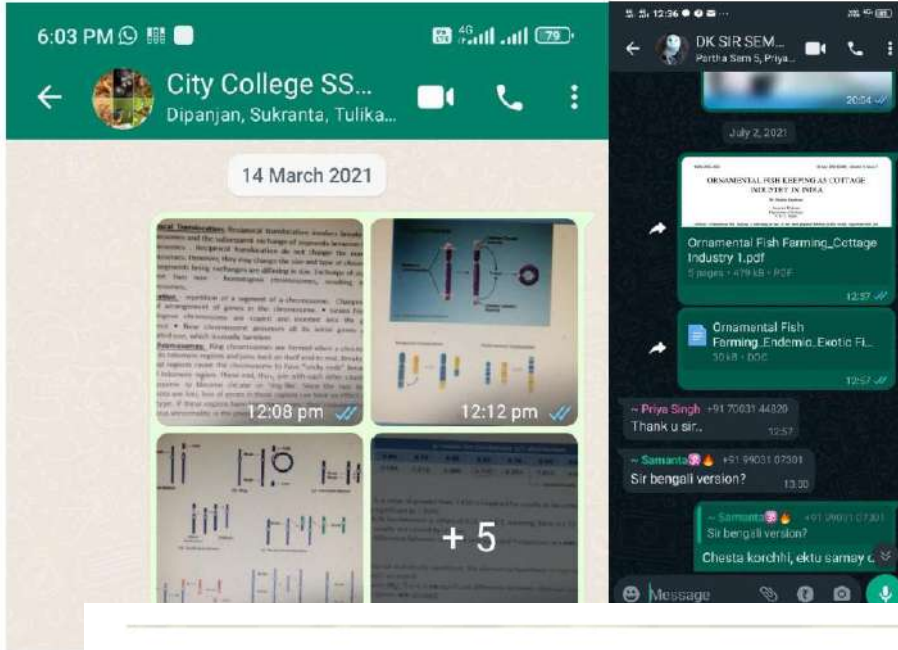


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Online Course Materials

94.30231: 94 US & 49 PG Courses in January 2021 by USC's Inter-University Centre.
<http://ipr.ncswiam.gov.in/>

| Date | Subject | Year/Semester | Paper | Unit/Chapter/Module | Title/Topic | Link |
|------------|---------|---------------|---------------------|---------------------|---|------------------------|
| 03.17.2021 | Zoology | Sem-5 | CCB (Theory) | Unit-VI | Apoptosis | Detail |
| 03.10.2021 | Zoology | Sem-IV | CCB (Theory) | Unit-IV | Comparative Anatomy of heart in Vertebrates | Detail |
| 28.8.2018 | Zoology | Sem-IV | CCB (Theory) | Unit-IV | Evolution of Crustaceans | Detail |
| --- | Zoology | Sem-5 | CCB (Theory) | Unit-V | Neurons | Detail |
| --- | Zoology | Sem-5 | CCB (Theory) | Unit-V | Evolution of Coelom | Detail |
| --- | Zoology | Sem-IV | ZOOA/CCB-3 (Theory) | Unit-VI | Succession of life in different vertebrate groups | Detail |
| --- | Zoology | Sem-5 | ZOOB/CCB-2 (Theory) | Unit-VI | Evolution of Crustaceans | Detail |
| --- | Zoology | Sem-5 | ZOOA/CCB-3 (Theory) | Unit-VI | Egg Membranes | Detail |
| --- | Zoology | Sem-5 | ZOOA/CCB-4 (Theory) | Unit-IV | Intermediate filament | Detail |
| --- | Zoology | Sem-5 | CCB (Theory) | 2 | Books of origin and reconstruction | Detail |
| 1.38.2018 | Zoology | Sem-5 | CCB (Theory) | 2 | Book of Genetics (Volume II) | Detail |
| --- | Zoology | Sem-IV | CCB (Theory) | Unit-IV | Comparative Anatomy of ACID ARCHES in Vertebrates | Detail |

SM Sir_Presentation for Uncouplers and Inhibitors for ET



Saiful A Mir saifulanam.mir@gmail.com
 to preeyamondal27, chakrabortysamya397, ambardey7, 3kumarsumit1999, sahadipayan2000, stirthaban, aritrashingsaha, rahman250898, mimodeb5

Sun, Feb 21, 2021, 10:46 PM

Dear Students,
 I am attaching the PDF for this particular topic here as few of you had asked me for it.
 Good luck!!

Dr. Saiful Anam Mir

Asst. Professor
 Dept. of Zoology
 City College (University of Calcutta)
 102/1 Raja Rammohan Sarani
 Kolkata- 700009, WB, India.

One attachment • Scanned by Gmail



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 Principal
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Server information

Koha version: 3.10.01.02.00
 OS version (uname -r): Linux kohahost01 5.15.0-104-azure #50-20241 Ubuntu SMP Thu Sep 21 13:01:28 UTC 2023; #81_64
 Perl interpreter: /usr/bin/perl
 Perl version: 5.03.030
 Perl @INC: /usr/share/koha/lib:/usr/share/koha/lib/perl:/usr/share/koha/lib/perl5:/usr/share/perl5:/usr/share/perl5/site_perl:/usr/share/perl5/site_perl:/usr/share/perl5/vendor_perl:/usr/share/perl5/vendor_perl:/usr/share/perl5/site_perl:/usr/share/perl5/vendor_perl/...

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| Sunday & Holidays | Closed |

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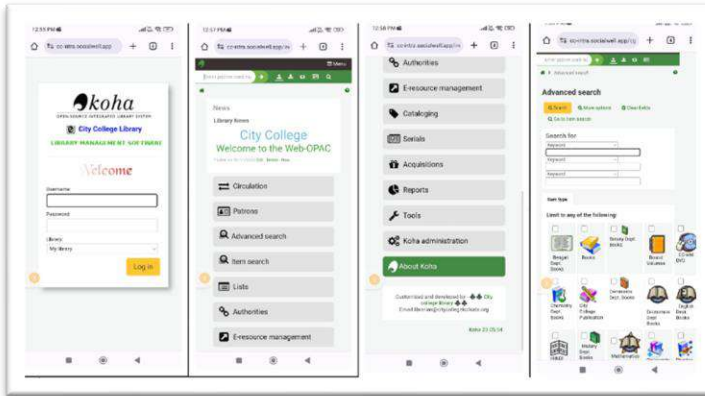


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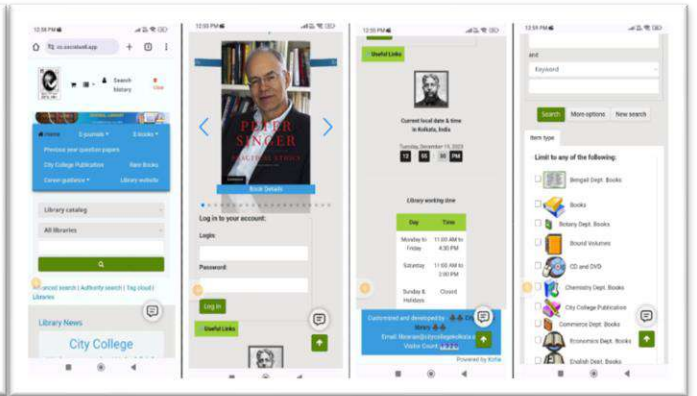
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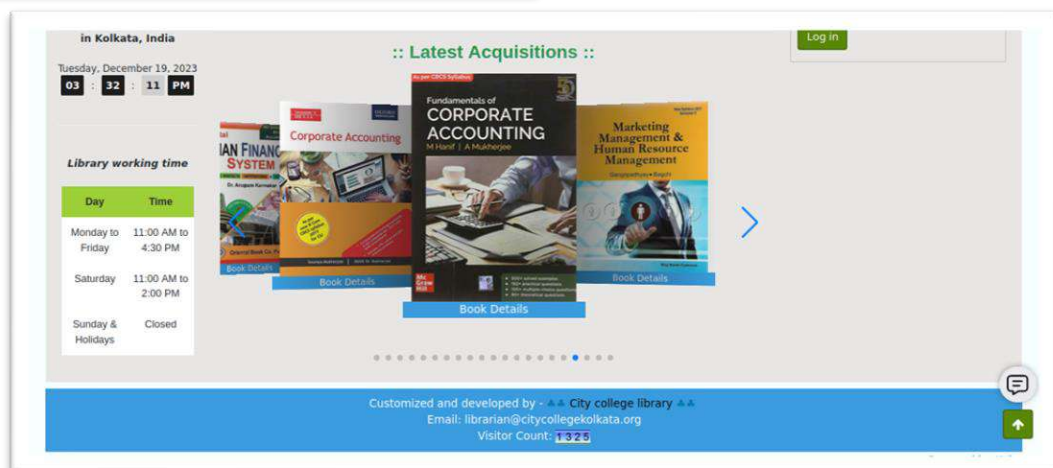
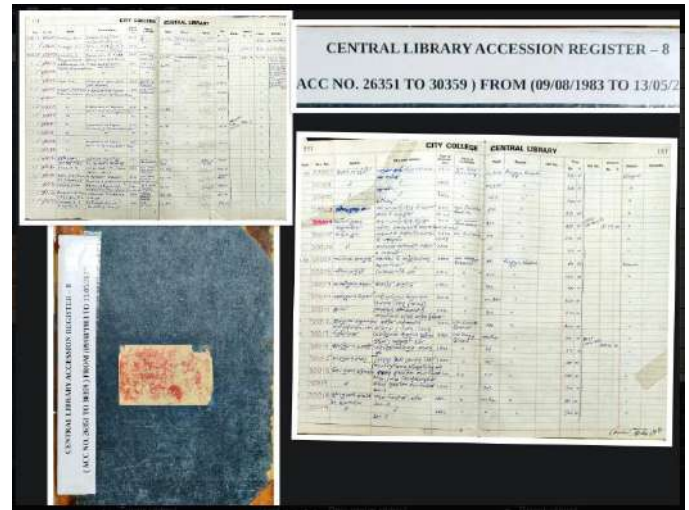
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