

Genesis

VOLUME 8

JYOTI NIVAS COLLEGE AUTONOMOUS



ZOOLOGY NEWSLETTER

2020 - 2021

Face Off with The Pandemic



We know this year was tough, but we know
“when the going gets tough, the tough get going”

cases

outbreak

SIX

face mask

response

epidemic

positive

Principal's Message

The way I see it, if you want to see the rainbow, you have to deal with the rain

- Dolly Parton

It is very heartening to see the great endeavour taken by the students and staff of the Department of Zoology to during the tough times like these. It gives me immense pride to know that the students of the Department of Zoology had a very fruitful year 2020-21. The year was very unpredictable yet was the students and staff managed to make the very best out of it. The tough and unpredictable time didn't dishearten anyone and in fact they strived harder and achieved a lot. I congratulate the Department of Zoology for having brought out the 8th edition of 'Genesis. Your effort is truly enriching.



Hope

A strong desire to be glorious,
Our aim was to emerge victorious.

Meeting complete strangers from the earth's ends,
We knew not we would be the best of friends.

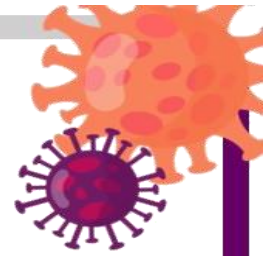
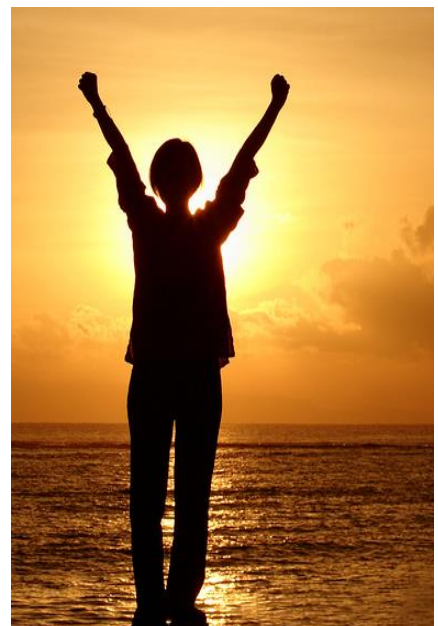
Escalating the fun we never felt exhausted,
Our love for each other left us completely flattered.

We bid adieu only to greet each other the next day,
The next day had a lot in store to keep us at bay.

When we had to be spending time together,
'Social distancing' only made it farther.

The blurred vision of the future is bitter,
Keep working on your perspective, it will only get better.

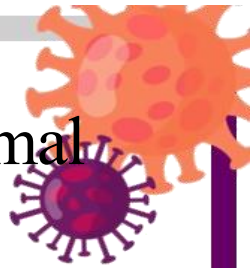
With patience this pandemic, we hope to surpass,
For 'surely this too shall pass'.....



NIVEDHA KENNEDY

III B. Sc. CBZ

India's lone fossil of world's oldest animal found in Bhopal.



Rarest fossil of the world has been discovered in Bhimbetka rock shelters, a UNESCO site in Bhopal. It is believed to be the first ever fossil in India of Dickinsonia. Dickinsonia is an extinct species under Class -Dickinsoniidae.

Dickinsonia fossils are known only in the form of imprints and casts in sandstone beds. Which is about 1.4 meters in length. The discovered fossil dates back to 570 million year on the roof of what's called the "auditorium cave" at Bhimbetka. Two experts from geological survey of India (GSI), while sightseeing tour for 36th international geological congress. Eleven feet above the ground, almost blending with rock and easily mistaken by laymen to rock art. It is believed to be the key link between early simple organism and explosion of life in Cambrian period.

This fossil was discovered 64 years ago by V.S. Wakankar. Thousands of researchers have visited same place but this rare fossil went undetected. "ASI deals in geologic time scale, quaternary period, that began 2.6 million years ago and extends into the present. Anything before human evolution is not covered" says retired ASI joint director general, S B Ota. This fossil is often mistaken as fungi fossil, but discovery of cholesterol molecules in fossils of Dickinsonia support to the idea that Dickinsonia was an animal.



Edited and compiled by,

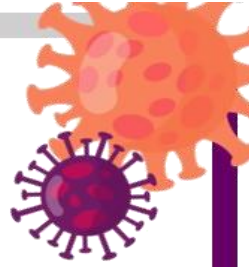
NIHARIKA

III B. Sc. CBZ

REFERNCE-

Gregory J Retallack, Neffra A Matthews, Sharad Master, Ranji. Elsevier, Gondwana Research, Official Journal of the International Association for Gondwana Research (IAGR)

Boomerang Effect



Ages ago, during the course of evolution,
There evolved an elite specie, causing a revolution,
Regarding themselves to be the most evolved,
Knocked down everything as pins that were bowled.

Hunting means to have a quality life,
These left no stone unturned, including the
cornerstone and pillars, that held the planet in place.
Not realising their actions were grave,
These were digging up their own grave.

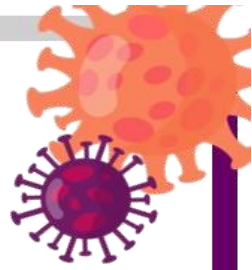
Hey there, élite specie,
Between the devil and deep sea,
Time to pay for the deeds of greed.
From tremors to tsunamis, flood to famine,
Epidemics to pandemics, nature has been reacting!

It's time for impartial lashing of revenge,
Another mass extinction is nature's avenge?
We are stuck in time, with self-inflicted mess,
With no turning back to clear the mess.
Behold, here unfolds the boomerang effect!

FARHANA AHRAF

III B. Sc. CBZ

War with the Invisible



About hundreds of days ago,
An invisible enemy declared a war,
A one-on-one war with the most evolved,
And threatened to wash off their existence.

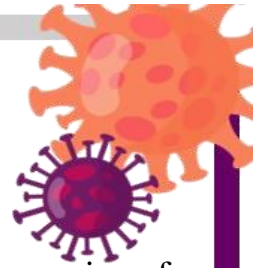
Smirking at the threat of something merely visible,
They ignored the declaration,
Only to witness and come to a realization
That the enemy conquered in geometric progression.

Unable to tackle this invisible attack,
Even with advanced arms and ammunition
many ended up as martyrs,
Sending the survivors into hiding, and
Stagnating all possible progress.

The enemy lay patiently for its prey,
Who was ready blow it's cover,
Due to rising underestimation, impatience and
Apprehensions about a future,
Whose existence itself was questionable.

The invisible enemy seeing this as an opportunity, is preparing for a comeback.
Beware! the targeted community,
Don't be quick to judge, or slow to realize,
That a mere ignorance may upgrade
The enemy from invisible to invincible.

VERMICOMPOSTING AT JYOTI NIVAS COLLEGE AUTONOMOUS



Vermicomposting is the process of manufacturing compost wherein certain species of earthworms are used to convert organic waste into a high-value biofertilizer which can be used for agronomic purposes. Earthworms feed on the organic waste materials and pass it through their digestive system and give it out in a granular form, known as vermicompost. This vermicompost is not only rich in nutrients, but it is also loaded with the microorganisms that create and maintain healthy soil. The joint action of earthworms and microorganisms makes vermicomposting a clean and sustainable mode of management and disposal of organic wastes. Use of vermicompost improves soil structure, enhances its water retention capacity and boosts crop productivity by encouraging the extensive development of the root system of plants.

Keeping all this in mind, a vermicompost unit has been set up at Jyoti Nivas College Autonomous, in order to ensure effective recycling of organic waste in its premises. The vermicompost unit is maintained by the Department of Zoology.

Two earthworm species, *Eudrilus eugeniae* and *Eisenia fetida* have been chosen for decomposition in the vermicompost unit. They feed on the biodegradable matter collected from the campus, in the form of dry and decomposing leaves and grass clippings. Food waste from the college hostel and canteen. The novelty of this project has made the campus community more interested in composting as a whole. The nutrient-rich compost has been put to use in the college garden. It is also sold under the trade-name- “**Vermifresh**”, to staff and students of the college at a nominal price.





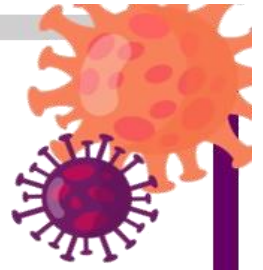
This novel initiative has helped the college in efficient management of organic waste and also created an excellent opportunity to train students on composting as a way to generate wealth out of waste. It will help the students who are interested in taking up various research projects for studying plant diseases, soil sample checking and enhancement of crop production. The students can get hands-on training in composting, with the help of which they can set up their own worm bins and promote sustainable waste disposal further.

The Department of Zoology has been periodically engaging and interacting with students to make them aware of the benefits of vermicomposting and how they can use it in their daily life. The college is looking into ways by which vermicomposting can be incorporated into the curriculum in the form of workshops, seminars and field visits. Students can make the most out of this venture and use it effectively in their practical and academic front. The reapplication of this centuries old gift of Vermitechnology has proved to be benefitting to the college.

SHREYOSHI DAS

II B. Sc. - BCZ

Mind



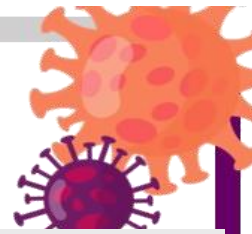
Where are you
Oh, thy freedom
I remember the days
When fresh air use to prevail
Laughter created music
Stars shone brightly
And contact was no mere dream
I remember
I reminisce
I cry, I sigh
All the I's required to make the better version of we
Memories haunt on one hand
And living becomes a battle for many on the other
hand
The lines between consciousness and sleep blurs
All the colours mix in a revolting shade of nightmare
Makes one think
How something so small
Invisible to naked eye
Daunt and taunt
And lock away the whole world
Make the impossible happen
Stopped the time for many
Stopped the thoughts of many
Stopped the income of countless faces
And reducing human beings
Just to a figure of numbers

The heart clenches
Instincts turned haywire
But mind remains still the same
Because mind knows that if a problem happens
solutions are also always there
So, it forces one to move forward
Embrace the new normal
Fight for the old normal
Evolve and metamorphosize
Cause every catastrophe is a lesson
Lesson helps to learn
So, pushing away our doubts and fears
This one mind told us to hold on
Not give up
Wait for the dawn to break
ice to melt
And receive the key to open us from the binds of this
corona chain
Because one's mind believe in one simple fact
That is
Time good or bad
Would eventually pass

AASHI PRASAD

III B. Sc. CBZ

Departmental Activities



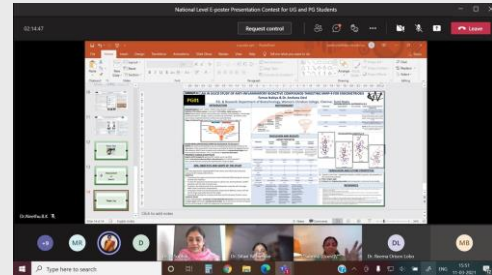
cCOVID 19 – Virus to Vaccine

Along with the release of the vaccine many rumors and misinformation was also being spread. The Department of Zoology released a report namely 'COVID 19 – Virus to Vaccine'. This report was aimed to give its readers more facts which resulted in giving more clarity to subject. It also informed about the virus and how it causes the disease. It also contained news about the vaccines which are available and the procedure one should follow to acquire it.



National level e-poster contest

On 11th of March 2021, the Department of Zoology successfully conducted a 'National level e-poster presentation contest for UG and PG students' online.



Webinar on Menstrual Health and hygiene

On 27th March 2021, with accordance to Women's Day, Eco-Club from the Department of Zoology along with Rotaract and AICUF conducted an online webinar on 'Menstrual Health and Hygiene'. It focused on demolishing harmful taboos and increase awareness and the knowledge about menstruation and menstrual health. Interactive session allowed students to ask questions and doubts which were promptly answered.

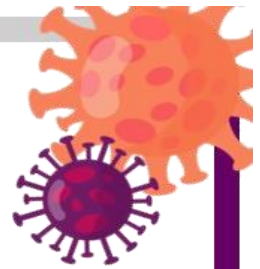


Student Achievement

Mariastella A. Silva from III B. Sc.- CBZ presented a paper on 'Avian Diversity and distribution in urban green and urban blue spaces in Bangalore, India' in National Virtual Conference on "Diversity and Distribution of Indian Birds" which was organized by the Natural Science Association, Department of Zoology, St. Joseph's College (Autonomous) on 1st May 2021.



Puzzle Time!!!



Unscramble the following correctly. Letters that come on the red underline reveals the final answer. Can you solve it?!!

THEME: INFECTIONS

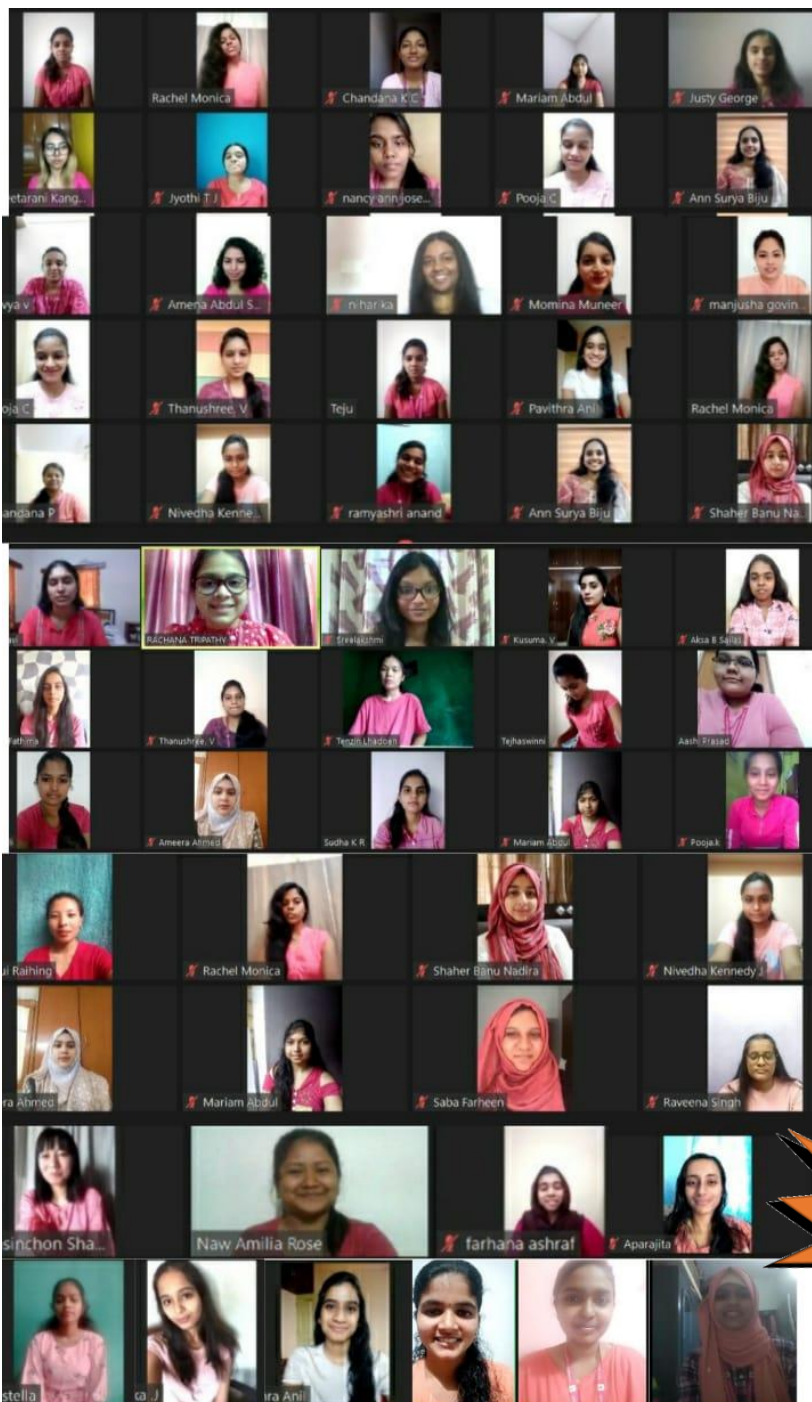
ERVEF, ZNAEUINFL, PESHER, LABOE, SLESMEA, LLPOSMAX, GUEDEN,
CHKNNGYIUA

1. _ _ _ _ _ _
2. _ _ _ _ _ _ _ _ _ _
3. _ _ _ _ _ _ _
4. _ _ _ _ _ _
5. _ _ _ _ _ _ _ _
6. _ _ _ _ _ _ _ _ _
7. _ _ _ _ _ _ _
8. _ _ _ _ _ _ _ _ _ _ _

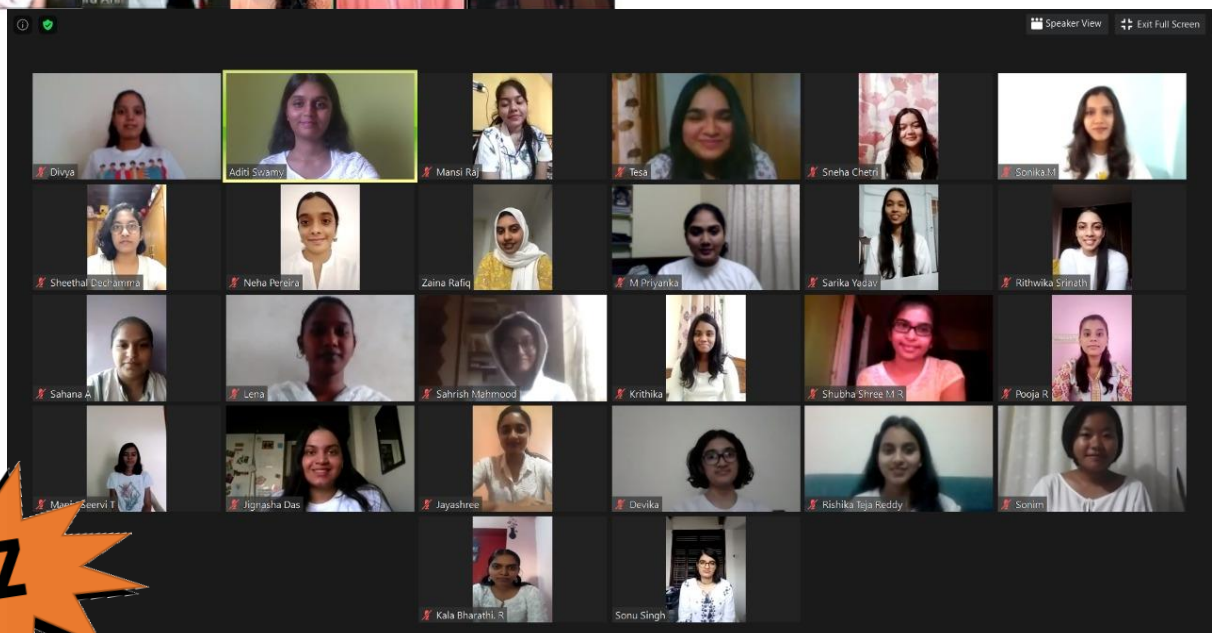
THE STUDY OF CAUSATIVE AGENT OF THE ABOVE-MENTIONED INFECTIONS IS CALLED:

(FEVER, INFLUENZA, HERPES, EBOLA, MEASLES, SMALLPOX, DENGUE, CHIKUNGUNYA. FINAL ANSWER-**VIROLOGY**)

-FARHANA ASHRAF
III B.Sc. CBZ



CLASS OF 2021





Editors' message

FACE OFF WITH THE PANDEMIC, spells our current state of affairs we are dealing with. The magazine tries to bring out the values and quality of the institution as expressed through the various activities engaged by the Department of Zoology. As the pages of Genesis are made so that the readers stand out to see the big picture of how this global pandemic has impacted our and the beings around us. This year's magazine is the result of the enthusiasm, creative energy and great support from faculty members of Department of Zoology and students. They passionately contributed their talents to paint, to sketch and write poems, stories and informative articles. We invite you to read and open yourself to the unfolding art and more and be amazed.



FARHANA ASHRAF
III B.Sc. CBZ

Meet the Student Editors



VAISHNAVI PAI
III B.Sc. CBZ



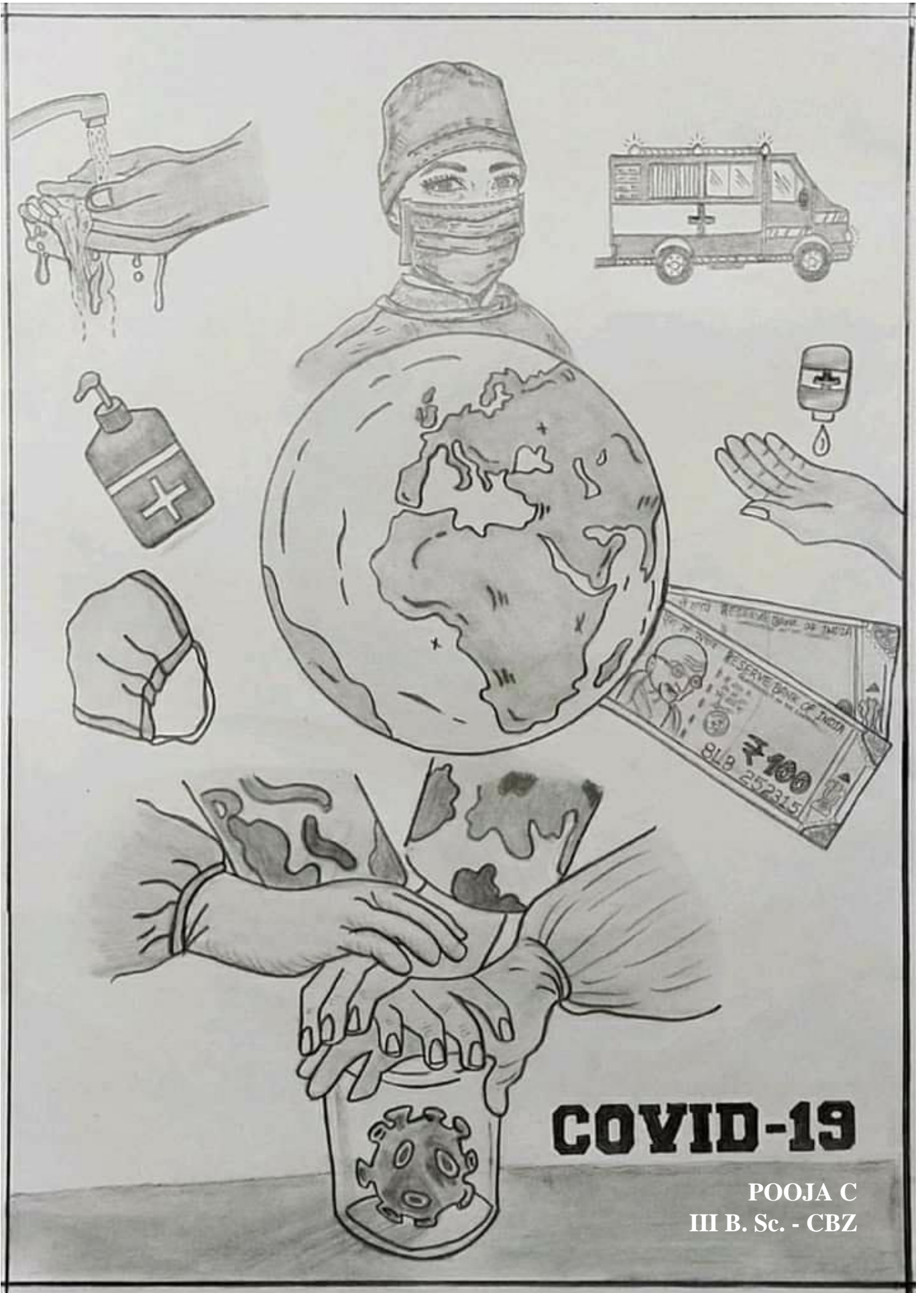
NIHARIKA
III B.Sc. CBZ



SUFIYA NAAZ A R
II B.Sc. BCZ

Staff incharge-Mrs. Vinutha R Bhatta





COVID-19

POOJA C
III B. Sc. - CBZ