

**DEPARTMENT OF ZOOLOGY**

**presents**

# **ZOOLOGICA**

**2022-23**

**Volume-5**



**RAMA DEVI WOMEN'S UNIVERSITY,  
VIDYA VIHAR, BHUBANESWAR, ODISHA**



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### From HOD'S Desk

It is a matter of great pleasure that the department of Zoology is unveiling the newsletter "ZOOLOGICA" for the year 2022-23. This newsletter sheds light on the activities of the department, achievements and creative ability of its students. My sincere thanks and appreciation to all the faculty members, non-teaching staff members and students of the department for their untiring effort in bringing out this news letter. I hope that this news letter will encourage the faculty members, staff and students of this department to work with renewed vigour to take the department to new heights.

**Sri Prakash Chandra Parichha**  
HOD, Zoology

### Members of our Editorial Board:

- Dr. Swagatika Satapathy
- Sushree Banamitra Khato
- Pratyusha Nayak



# FANTASTIC FACTS

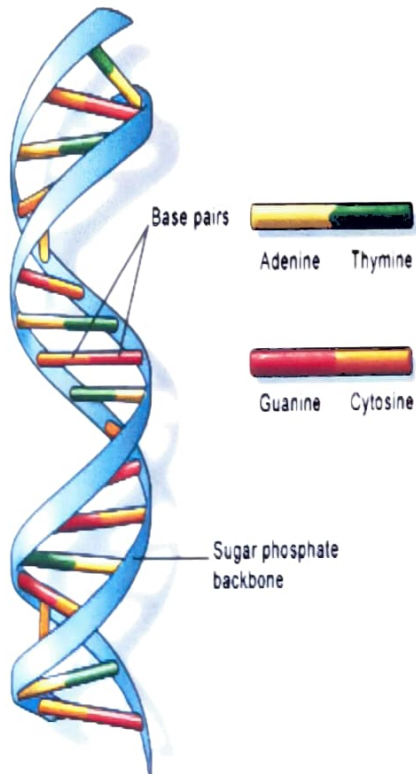
## Interesting facts about Gharials

Gharial derives its name from ghara, an Indian word for pot because of a bulbous knob (narial excrescence) present at the end of its snout. Scientific name of gharial is *Gavialis gangeticus*. Gharials, sometimes called gavials, are a type of Asian crocodilian.

The gharial also known as gavial or fish-eating crocodile. They are mostly found in fresh waters of the himalayan rivers. They live about 50 years. Gharials are the longest among all the living crocodilians. The heaviest recorded gharial was a male measuring 6.25 m (20.5 ft) in total length and weighing 977 kg (2,154 lb).

Gharials have between 106 and 110 interlocking, razor—sharp teeth, which help them catch slippery fish. Their snout is perfectly adapted to capture the gharial's favourite food, fish.

~ SHANTA KUMARI PANDA, UG 1<sup>ST</sup> YEAR



## GENETICS

Genes are contained in chromosomes, which are in the cell nucleus. Chromosomes are thread-like structures present in the nucleus, which carry genetic information from one generation to another. They play a vital role in cell division, heredity, variation, mutation, repair and regeneration.

A genome is all of the genetic material in an organism. It is made of DNA (or RNA in some viruses) and includes genes and other elements that control the activity of those genes.

The order of organization of genetic material from the largest to smallest:

**Genome > chromosome > gene > nucleotide.**

Gene was coined by **W Johansen** (1909). Gene theory was proposed by **T H Morgan** (1911). Gene concept was given by **Sutton**.

**Terms related to Gene:**

- Recon-** It is the smallest unit of DNA capability of undergoing crossing over and recombination.
- Muton-** It is the smallest unit of DNA which can undergo mutation.
- Cistron-** It is the unit of function. It is the gene capable of synthesizing a polypeptide chain of an enzyme.
- Complon-** it is the unit of complementation.

Anwasha Das, UG 1<sup>ST</sup> Year



## YOUR GRANDMOTHER CARRIED A PART OF YOU IN HER WOMB!!

Is not it amazing to know? But how is this possible?

Well, all the eggs a woman will ever carry on her ovary, develops while she is a four-month-old foetus in the womb of her mother.

Thinking about our own history reveals that our life as an egg actually started in our mothers developing ovary, before she was born; we were wrapped in our mothers foetal body as it developed within our grandmother (maternal). Each of us spent five months in our grandmothers womb and she in turn formed within the Womb of her grandmother.

So, when our grandmother was carrying our mother in her womb, we were a tiny egg in her (mothers) ovaries.

The three of us have been connected for a very long time, indeed!

-Snehashrita Nayak,UG 2<sup>nd</sup> Year



## FACTS ABOUT STARFISH

### DID YOU KNOW THAT ???

1

STARFISH DO NOT HAVE BRAINS NOR BLOOD.

STARFISH MOVE USING HUNDREDS OF TUBE FEET.

2

3

ROYAL STARFISH LIVE AROUND 70 TO 100 FEET DEEP IN THE OCEAN.

PINK STARFISH IS ONE OF THE LARGEST STARFISH.

4

5

THERE ARE 2,000 DIFFERENT SPECIES OF STARFISH. THEY CAN LIVE UP TO 35 YEARS

STARFISH CAN REGENERATE THEIR DAMAGED PARTS.

6

7

STARFISH HAVE EYES AT THE END OF EACH ARM.

Saisruti Jena, UG 1<sup>st</sup> year

## DO YOU KNOW?

- 👉 A snail can sleep for three years.
- 👉 An Octopus has three hearts.
- 👉 Butterflies have taste receptors on their feet.
- 👉 Squirrels are not capable of vomiting or burping.
- 👉 A honeybee can flap its wing 200 times every second.
- 👉 Jellyfish use the same hole for eating and popping but it really does not matter for them as they do not have brain.
- 👉 Giants Squids have the largest eyes of all the living creature.
- 👉 Siberian husky is a species of dogs that is known to have blue eyes.
- 👉 There are more than 900 thousand different species of insects in the world.
- 👉 Total 57 species of snakes exit in Oklahoma and only seven of them are venomous.
- 👉 There are more chickens than people in the world.
- 👉 A rhinoceros horn is made of compacted hair.
- 👉 Crocodiles cannot stick their tongue out.
- 👉 Starfish do not have a brain.
- 👉 Fleas can jump 350 times its body length.
- 👉 The largest animal on Earth is the blue whale found in Antarctica.
- 👉 Blue Whale makes the largest sound of all the living creature.

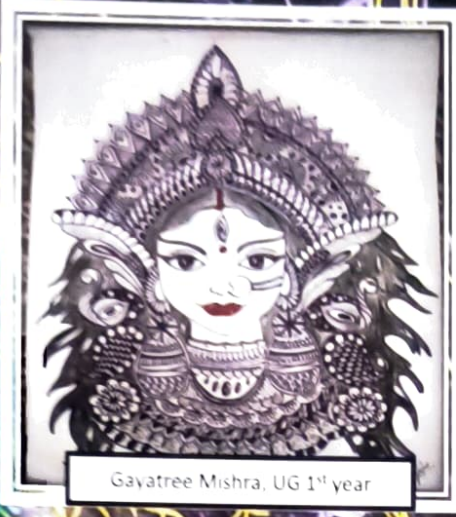
Poojanjali Thakur,UG 1<sup>st</sup> year



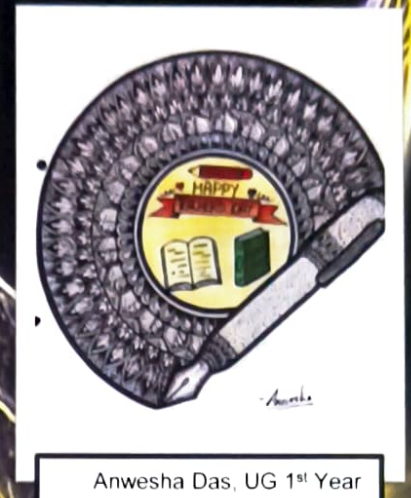
# CREATIVE CORNER



Mamali Sena, UG 2<sup>nd</sup> year



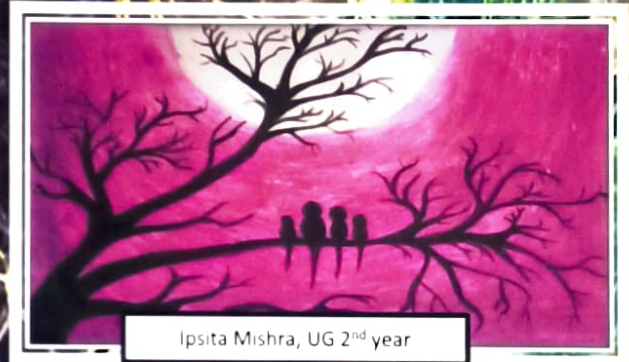
Gayatree Mishra, UG 1<sup>st</sup> year



Anwasha Das, UG 1<sup>st</sup> Year



Ipsita Mishra, UG 2<sup>nd</sup> year



Ipsita Mishra, UG 2<sup>nd</sup> year



Mamali Sena, UG 2<sup>nd</sup> year



Gayatree Mishra, UG 1<sup>st</sup> year



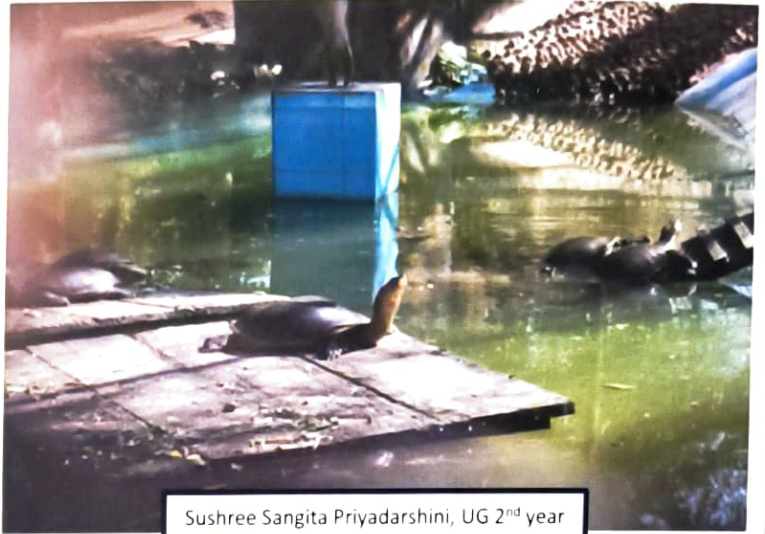
Aiswarya Ananya Swain, UG 2<sup>nd</sup> year



# FUMING FLORA & FAUNA



Shanta Kumari Panda, UG 1<sup>st</sup> Year



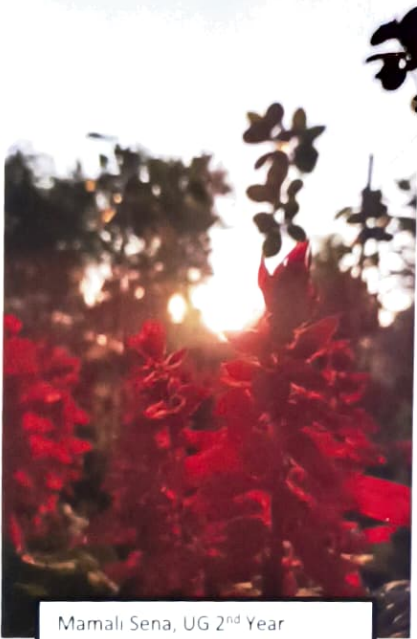
Sushree Sangita Priyadarshini, UG 2<sup>nd</sup> year



Anwasha Das, UG 1<sup>st</sup> Year



Aiswarya Ananya Swain, UG 2<sup>nd</sup> year



Mamali Sena, UG 2<sup>nd</sup> Year



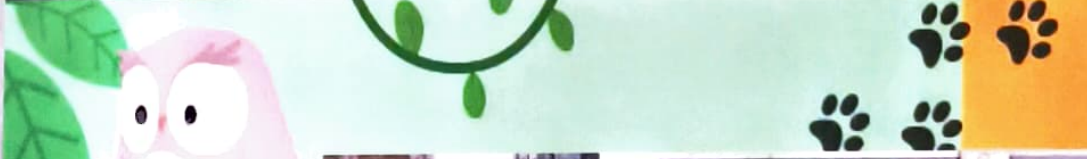
Shanta Kumari Panda, UG 1<sup>st</sup> Year



When **DOPAMINE**  
meets **ADRENALINE**



*Bon voyage*  
**2020**  
**BATCH**  
**FAREWELL**



**SEMINAR,**  
**2023**







Aurora

2022

FRESHERS



ALUMNAE  
MEET  
2022





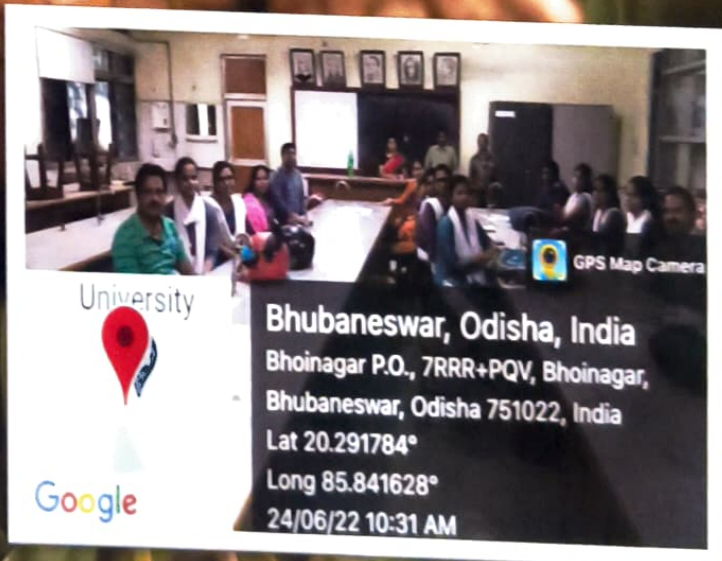


Seminar talk by Dr. Saroj kumar Swain, Principal Scientist, CIFA



Bhubaneswar, Odisha, India  
7RVR+2M3, Bhoinagar, Bhubaneswar, Odisha  
751022, India  
Lat 20.292711°  
Long 85.841523°  
24/04/23 11:26 AM GMT +05:30

Teachers' Day Celebration at Department of Zoology



Bhubaneswar, Odisha, India  
Bhoinagar P.O., 7RRR+PQV, Bhoinagar,  
Bhubaneswar, Odisha 751022, India  
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Long 85.841653°  
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Bhubaneswar, Odisha, India  
Bhoinagar P.O., 7RRR+PQV, Bhoinagar,  
Bhubaneswar, Odisha 751022, India  
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Long 85.841628°  
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Parent Teacher Meetings of Zoology Department



# MAMMALIAN MARVELS



NATIONAL SCIENCE DAY, 2023, ROJALIN PANDA, UG 3<sup>RD</sup> YEAR, 3<sup>RD</sup> PLACE IN SCIENCE QUIZ



INTER COLLEGE HOCKEY CHAMPIONSHIP, 2022, MAMALI SENNA, UG 2<sup>ND</sup> YEAR, 1<sup>ST</sup> PLACE IN POSTER MAKING



GREEN AUDIT TEAM, 'SAVE ENVIRONMENT' COMPETITION, 2022, AISWARYA ANANYA SWAIN, UG 2<sup>ND</sup> YEAR, 1<sup>ST</sup> PLACE IN POSTER MAKING

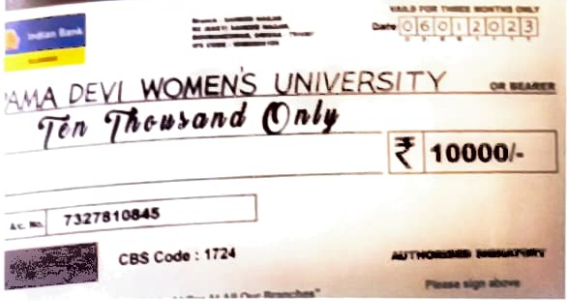


KANYAKA JENA, AWARDED UNIVERSITY GOLD MEDAL AS BEST SCIENCE GRADUATE FOR THE YEAR 2020, IN THE GOLD MEDAL DISTRIBUTION CEREMONY-2023



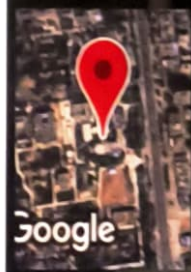


Saisruti Jena (UG 1<sup>st</sup> Year, Zoology), Receiving Prize for the RDWU Team which secured 3<sup>rd</sup> position in Inter-University Hockey Tournament,



Student seminar at our Department

GPS Map Camera

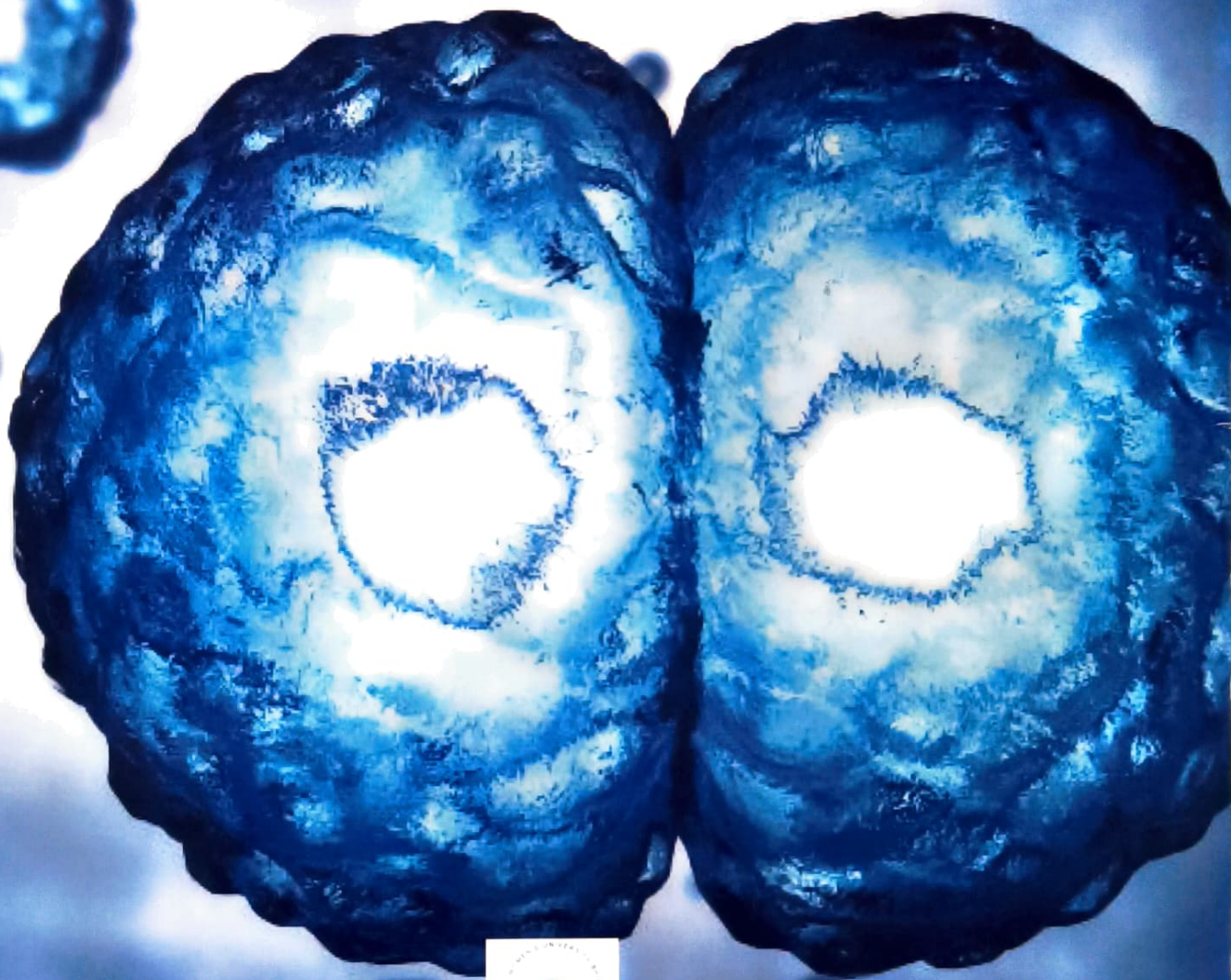


Bhubaneswar, Odisha, India  
Ramadevi Women's University, 7RRR+VM8,  
Bhojnagar, Bhubaneswar, Odisha 751022, India  
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Long 85.841406°  
28/03/23 12:03 PM GMT +05:30



Students of Zoology Department participated in the cultural programme of National Science Day-2023





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