

**GOPALPUR COLLEGE, GOPALPUR, BALASORE**  
**DEPARTMENT OF ZOOLOGY**

Topic :- Energy flow in Ecosystem

Dt :- 10/11/2016

Resource person :- Dr. Ananta Prasad Sahoo

(Lect. In zoology, Belabhumi mahabidyalay , Avana .)

Synopsis :

Energy is the ability to do work such as moving matter over a distance or causing a heat transfer between two objects at different temperatures. Energy can take different forms; Heat, light electricity and chemical energy.

This seminar specifically meant for acquiring knowledge about energy and which may it can transmit in ecosystem. This seminar is attended by 16 numbers of students of +3 1<sup>st</sup> year science.



*Abhay Kumar Mohapatra*

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Organizing Secretary

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Principal  
Gopalpur College, Gopalpur, Balasore  
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**GOPALPUR COLLEGE, GOPALPUR, BALASORE  
DEPARTMENT OF ZOOLOGY**

**Topic :- Parental care in Amphibia**

**Dt. :10/08/2017**

**Resource person :- Mrs. Swadhina Padhiary**

**Lect. In zoology , Saraswata Mahabidyalay ,Anantapur , Balasore**

**Synopsis**

Looking after the eggs or young unit they are independent to defend from predators in known as parental care. Amphibian and shows a great diversity in parental care which of 2 types:- (I) Protection by nests nurseries or shelters and (II) Direct carrying by parents .

This seminar specifically meant for acquiring knowledge about Parental care shown by amphibians which is most important for species survivability. This seminar is attended by 24 numbers of students comprising both +3 1<sup>st</sup> year science and +3 2<sup>nd</sup> year science zoology hons .

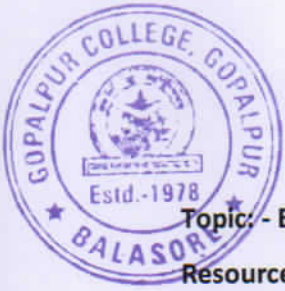


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DEPARTMENT OF ZOOLOGY**

**Topic: - Blood Composition and Its function**

**Dt. 15/10/2017**

**Resource person :- Mrs. Swadhina Padhiary**

**Lect. In zoology , Saraswata Mahabidyalay ,  
Anantapur , Balasore**

Blood is modified liquid connective tissue as the cellular components are separated tissue by a considerable amount of liquid substance called plasma. In human body it is about 7% of total body weight which performs many important functions within the body including supply of oxygen to tissue . supply of nutrients and removal of wastes and immunological function. This seminar is most essential for the students for their future study and field of research and pathological study in future.

This seminar is attended by 24 numbers of students comprising both +3 1<sup>st</sup> yr. sc. ,+3 2<sup>nd</sup> yr. sc. and +3 3<sup>rd</sup> yr. sc. of Zoology Department.



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DEPARTMENT OF ZOOLOGY**

**Topic :- Evolution of coelom Dt. :- 27/12/2018**

**Resource person :- Mrs. Urbasi Jena**

**Reader In zoology , Nilagiri college,**

**Synopsis**

A body cavity can mean an internal space or series of spaces present inside the body coelom or true body cavity generally refers to a large fluid space. Laying between the outer body wall and inner digestive tube. It contributes directly to the development of excretory reproductive muscular organs of the body.

This seminar helps the students in their future physiological study and field of research. This seminar is attended by 30 numbers of students comprising both +3 1<sup>st</sup> yr. sc. ,+3 2<sup>nd</sup> yr. sc. and +3 3<sup>rd</sup> yr. sc. zoology hons .



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**Topic: - Oxidation of fatty Acid**

**Dt :- 22/01/2019**

**Resource person: - Mrs. Swadhina Padhiary**

**Lect. In zoology , Saraswata Mahabidyalay ,**

Lipids are a group of naturally occurring organic compounds there are soluble in non-polar organism solvent but soluble in water. They are composed of C, H and O in form of fatty acids and glycerol. Mitochondrial oxidation of fatty acid takes place in the three stages. In first stage in  $\beta$ -oxidation of fatty acid undergo oxidative of successive two carbon in 2<sup>nd</sup> stage of fatty acid oxidation. The acetyl CoA are oxidized to CO<sub>2</sub> in the citric acid cycle . These are also takes place in the mitochondrial matrix. Acetyl CoA derived from glucose via glycol sis and private oxidation.

This seminar will help the students for their future research work and study of biochemistry. This seminar is attended by 28 numbers of students comprising both +3 1<sup>st</sup> yr. sc. ,+3 2<sup>nd</sup> yr. sc. and +3 3<sup>rd</sup> yr. sc. Of zoology Deptt .



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## DEPARTMENT OF ZOOLOGY

**Topic: - Coral and Coral reefs**

**Dt :- 04/11/2019**

**Resource person: - Mrs. Swadhina Padhiary**

**Lect. In zoology, Saraswata Mahabidyalay , Anantapur , Balasore**

Synopsis

Coral is a deposite of calcium carbonate formed by Coellenterates. They belongs to class Anthozoa and hydrozoa. True story corals belongs to order medriporaria. The coral polyp secrets an epidermal calcareous skeleton. The carbonate secreting epidermal cells called calicoblasts. The skeleton of single polyp called corallite. A group of corallite of entire colony in called corallum.



Coral reef is a ridge of calcium carbonate in the sea having its upper surface and it is chiefly produced by corals. This seminar will help the students for their economical study in future. This seminar is attended by 30 numbers of students comprising both +3 1<sup>st</sup> yr. sc. ,+3 2<sup>nd</sup> yr. sc. and +3 3<sup>rd</sup> yr. sc. Zoology hons .

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## DEPARTMENT OF ZOOLOGY

Topic :- Apoptosis

Dt. :- 27/02/2020

Resource person :- Mrs. Swadhina Padhiary

Lect. In zoology , Saraswata Mahabidyalay ,  
Anantapur , Balasore

Synopsis :

The cell death occurs during embryogenic metamorphosis and normal cell turn over in termed as normal programmed cell death or apoptosis. Apoptosis can be initiated in a variety of ways and one of these involve is death factors, proteins Such as TNF. in apoptosis under lies the cause of certain human diseases including neurogenerative disorders and cancer.



This seminar will help the students for betterment of their embryonic research in future. This seminar is attended by 30 numbers of students comprising both +3 1<sup>st</sup> yr. sc. ,+3 2<sup>nd</sup> yr. sc. and +3 3<sup>rd</sup> yr. sc. of zoology Deptt. .

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