

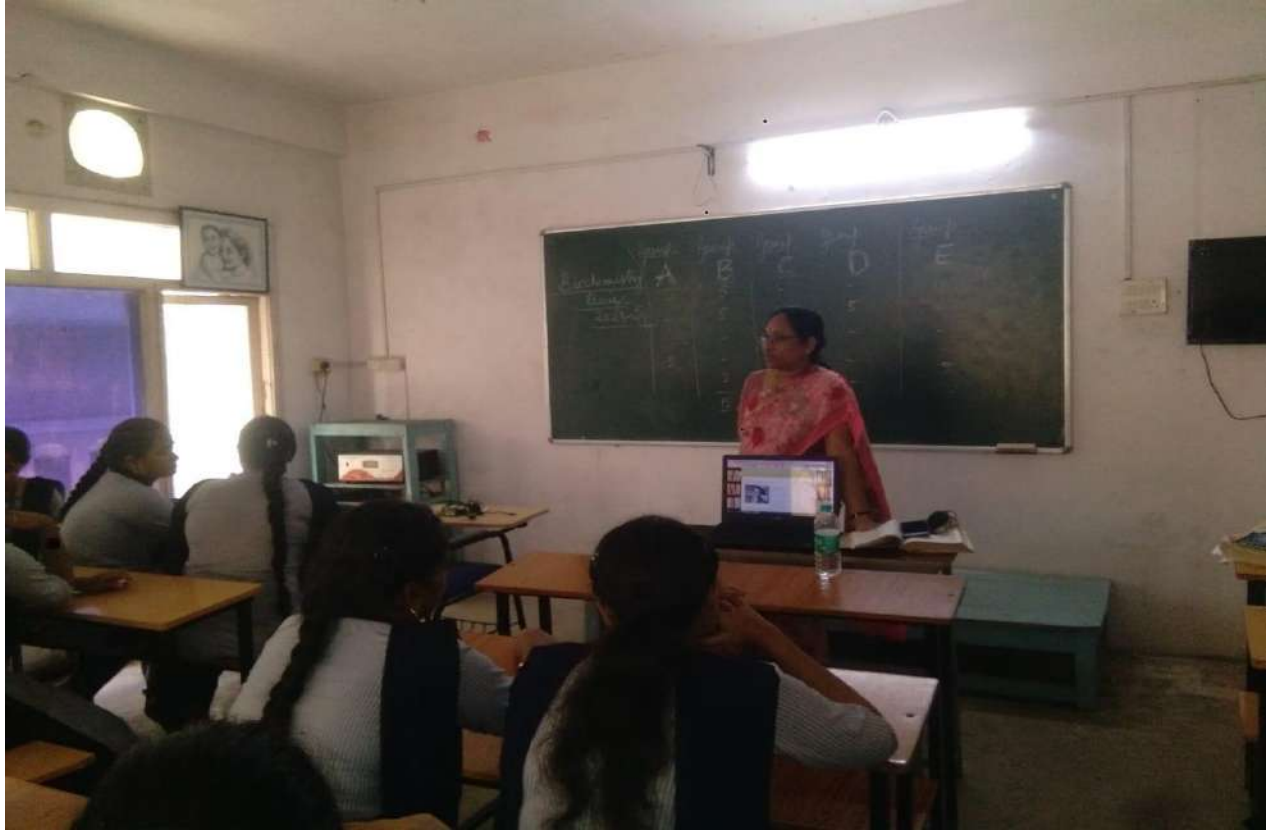
TEACHING AND LEARNING METHODOLOGIES



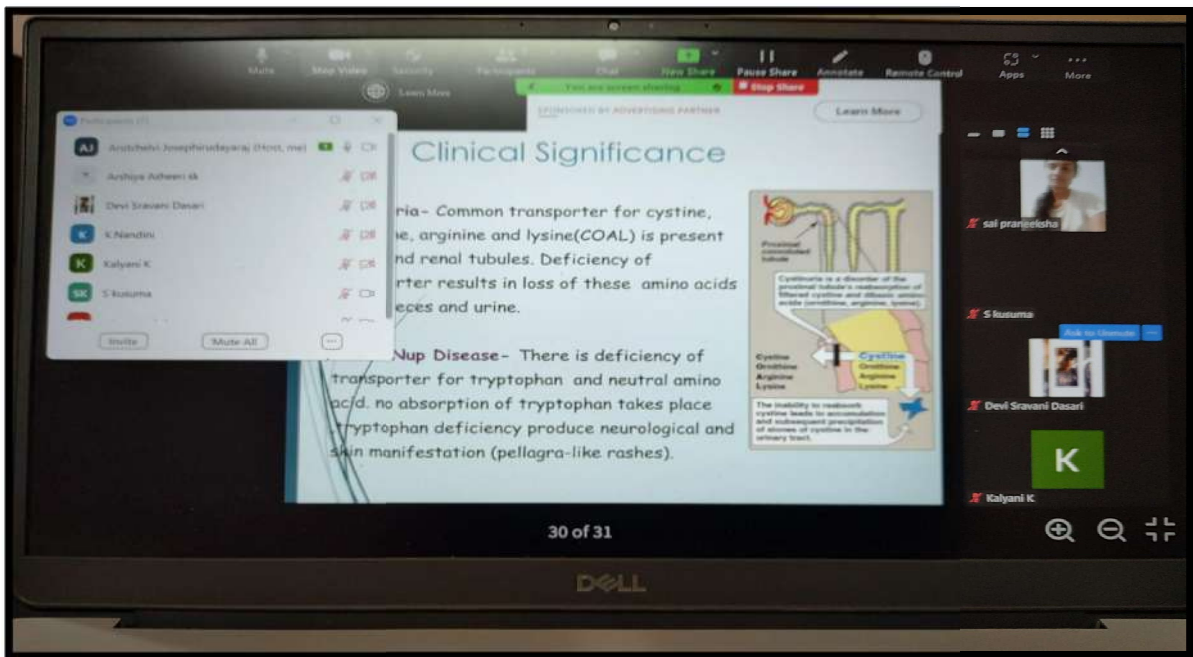




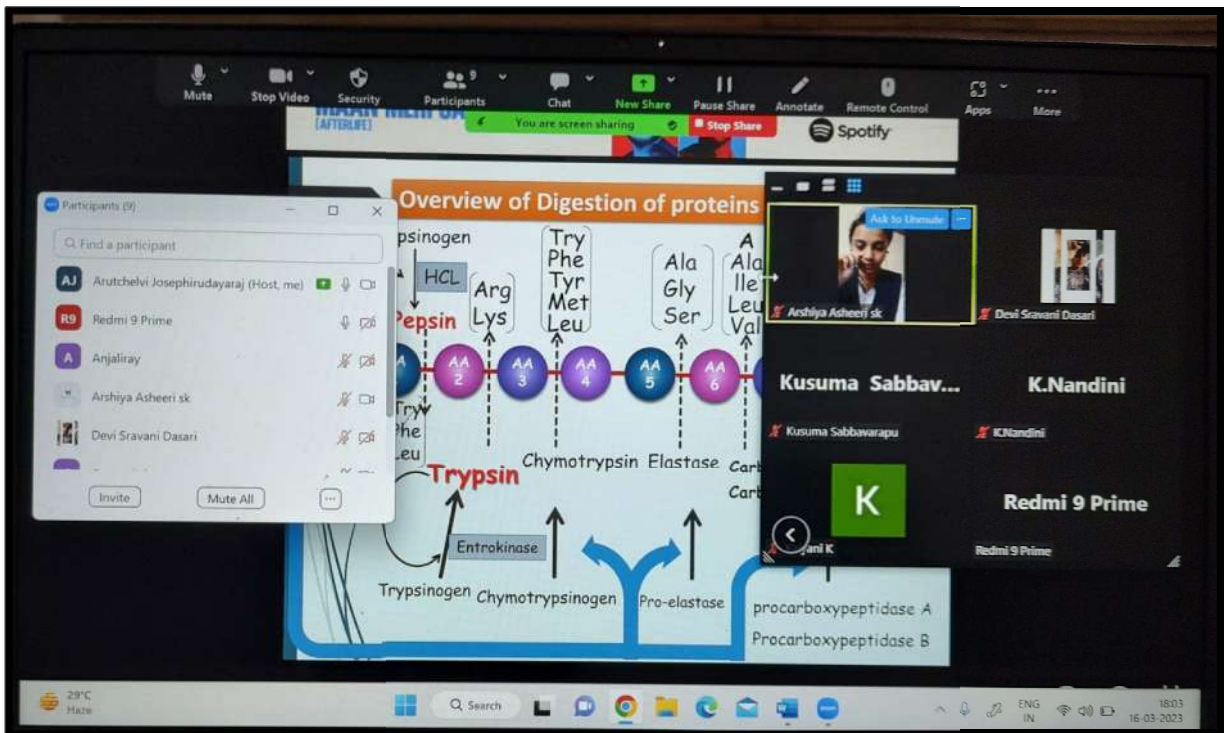




ONLINE TEACHING USING ZOOM



Online Teaching on Clinical manifestations associated with poor absorption of amino acids and proteins.



Online Teaching on the various enzymes involved in the digestion of proteins and its cleavage site

SEMINARS BY STUDENT



GPS Map Camera

Visakhapatnam, Andhra Pradesh, India

10-1-57, Chaitanya Nagar, Gajuwaka, Visakhapatnam, Andhra Pradesh 530026,
India

Lat 17.68269°

Long 83.202126°

14/03/23 12:16 PM GMT +05:30

Google

One of our UG students prepared and gave seminar on Classification of Microorganisms

Experimental Learning by students



QUIZ

BIOCHEMISTRY QUIZ CONDUCTED ON 2ND OF JULY

We the faculty of Biochemistry Department conducted Quiz in Biochemistry and included the syllabus of all the semesters for our II & IV semester students. We have conducted five rounds and we have divided students in to five groups i.e A – E . And each question carried 10 marks.

FIRST ROUND

TOPIC : BIOMOLECULES AND BIOCHEMICAL TECHNIQUES

SECOND ROUND

TOPIC : NAMING THE STRUCTURE

THIRD ROUND

TOPIC : IDENTIFICATION OF THE SCIENTIST AND THEIR CONTRIBUTION IN BIOCHEMISTRY

FORTH ROUND

TOPIC : ABERRATIONS OF BIOCHEMISTRY TERMS

FIFTH ROUND

TOPIC : METABOLISM AND CLINICAL BIOCHEMISTRY

QUIZ QUESTIONS

1. How many standard amino acids are there and name the 21st amino acid

A. 23 standard amino acids and selenocysteine is the 21 amino acid

2. what colour is formed when glycogen and starch reacts with iodine?

A. Starch- blue/ black, Glycogen- Red

3. how many essential amino acid are there?

A. 10 essential amino acids are their names MATTVILPHLy

4. how many types of essential fatty acids are there?

A. three essential fatty are there. Names are Linoleic 18:2,
Linolenic 18:3 ,Arachidonic 20:4

5. A hemoglobin molecules is made up of how many polypeptide chains?

A. 4 polypeptide chains

6. Define PCR?

A. It is a very sensitive technique that allows rapid Amplification of a specific segment of DNA

7. what are the two technique are used to study cells?

A transmission and Scanning

8. What is the prosthetic group present in Enzyme Fatty Acyl synthase

A. 4' – Phosphopentothene prosthetic group

9. Which Vitamin acts as the prosthetic group for Acetyl CoA Carboxylase Enzyme?

A. Vitamin B-7(Biotin)

10. Give an example of tri peptide

A. Glutathione

Identify and name of the structure?

11. Heme

12. Adenine

13. Maltose

14. Lysine

15. Lecithin

Say the full form of following abbreviation in bio chemistry

16. NADH

17. PDH

18. TPP

19. ELISA

20. THF

Identify the scientists and mention their discovery

21. Frederick Sanger - insulin molecules

22. Marshall Warren Nirenberg - DNA genetic molecule

23. Richard J. Roberts - Introns in DNA

24. Walter Gilbert - gene control and nucleic acids

25. Gerty Cori - catalytic conversion of glycogen

26. How cells take up by receptor mediated Endocytosis

A. Fatty acid oxidation

27. Why Acyl carrier protein contains a prosthetic group

A. Fatty acid Biosynthesis

28. When the oxidation of odd numbered fatty acid results in a final product

A. Fatty acid oxidation

29. How cholesterol and other lipids are transported from tissues to the liver

A. Lipid digestion, Absorption, and transport

30. Why is ATP important in metabolism?

A. To provides the energy needed for many essential processes in organisms and cells

31. How many stages are there in Cellular Respiration?

A.3 stages namely Glycolysis, kerb cycle, oxidative phosphorylation

32. Can neonates produce IgM?

A. IgG,IgA,IgM is differentially produced in neonatal macaques with age

33. What are the symptoms for type 1 Diabetes

A. Excessive hunger, excessive urination, excessive sweating, excessive thirst

34.What are the chemicals require to estimate Haemoglobin levels

A. Potassium cyanide,ferricyanide

35.What are the two marker enzymes of the plasma membrane?

A. sodium potassium ATPase and Pma1

Result

Group C won in the biochemistry Quiz with the highest score of 60 marks



GROUP DISCUSSION

INTRODUCTION:

On 29th June, Thursday the department of biochemistry conducted group discussion among 1st and 2nd year biochemistry students by dividing them into 4 groups. 2 groups each discussed on a single topic. Group D{arthur kornberg house} & group E{ gerty cori house} has given the topic of " intake of junk food vs nutritious food among teenagers"

THE GROUP DISCUSSION IS AS FOLLOWS:

EVALUATOR: you've all been given a few minutes to think on your topic for today's group discussion , which is "INTAKE OF JUNK FOOD vs NUTRITIOUS FOOD AMONG TEENAGERS" you may now begin the discussion.

STUDENT1 FROM GROUP-D: We are in an era of dominance of the fast-food industry. There is a lot of information on the internet that shows people how they can live healthier and less expensive lives. One of the ways to do this is by purchasing healthy food instead of junk food. Many restaurants and grocery stores have received backlash for their unhealthy options. So teenagers now a days are going for junk food

STUDENT2 FROM GROUP-E: On the contrary to that Nutritious food uptake reduces the risk of some diseases, including heart disease, diabetics, stroke, some cancers and osteoporosis. So as to prevent this long term effects the teenagers must take Nutritious food in their diet regularly.

STUDENT3 FROM GROUP-D: I agree with you but Teenagers are probably some of the biggest consumers of junk food today . Picking up a snack or two from street vendors while on their way back home is now a common practice it

will also save time for the students as they always have a hectic schedules , to manage their student lives and to reach their destination in a hurry they are choosing junk food over nutritious food.

STUDENT4 FROM GROUP-E: Absolutely, there has been a rapid increase in the consumption of JUNK FOOD by teenagers but In my opinion,one of the reason for this is a large number of options available today at throwaway prices but consuming them result in impairment of health at an early age .

EVALUATOR: YOU MAY CONCLUDE NOW.

STUDENT 5 FROM GROUP-E: We can conclude by saying that while Teenagers have more access to junk food today they also have a large number equally tasty and healthy options available. Junk food also results in obesity, Cardiovascular problems etc whereas Nutritious food uptake results in healthy lifestyle.

CONCLUSION:the group discussion concluded as,whether or not teenagers are inclined to indulge in a bad diet depends upon their level of awareness about their ill effects and this sould be made a part of their curriculum and must be discussed at home right from an early age to consume the nutritious food over junk food. And also concluded with a quote as follows;

" YOUR DIET IS A BANK ACCOUNT, GOOD FOOD CHOICES ARE GOOD INVESTMENTS "

