Govt. Degree College, Rajampeta

Department of ZOOLOGY

Academic year: 2024-25

1. Name of the Activity	**GROUP DISCUSSION**
2. Name of the Lecturer	**Dr. N. Chandra Mohan**
3. Date	**19-02-2025**
4. Number of students participated	**11**
5. Number of faculty involved	**1**

6. Aim & Objectives:

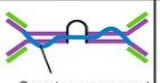
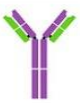
- **To Gain Knowledge on the Classification of Immunoglobulins.**
- **To change the classroom environment.**
- **To enhance the thinking power of students.**
- **To improve the discussion skills of students.**

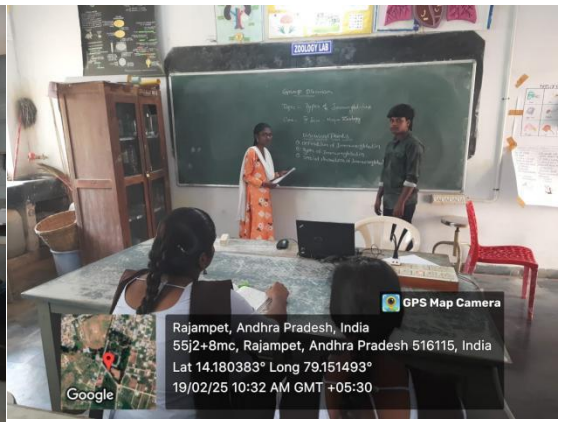
7. Brief Report:

- **I (Dr. N. Chandra Mohan) conducted a Group Discussion Programme to IV Sem Students on 19-02-2025.**
- **From this programme the students were divided into 3 groups. All the students discussed the topic "Classification of Immunoglobulins."**

- **immunoglobulins (Ig) are Glycoproteins that help the body from infections. They are also known as antibodies.**

The Five Immunoglobulin (Ig) Classes

	IgM pentamer	IgG monomer	Secretory IgA dimer	IgE monomer	IgD monomer
					
Heavy chains	μ	γ	α	ε	δ
Number of antigen binding sites	10	2	4	2	2
Molecular weight (Daltons)	900,000	150,000	385,000	200,000	180,000
Percentage of total antibody in serum	6%	80%	13%	0.002%	1%
Crosses placenta	no	yes	no	no	no
Fixes complement	yes	yes	no	no	no
Fc binds to		phagocytes		mast cells and basophils	
Function	Main antibody of primary responses, best at fixing complement; the monomer form of IgM serves as the B cell receptor	Main blood antibody of secondary responses, neutralizes toxins, opsonization	Secreted into mucus, tears, saliva, colostrum	Antibody of allergy and antiparasitic activity	B cell receptor



Students discussed the topic - Classification of Immunoglobulins

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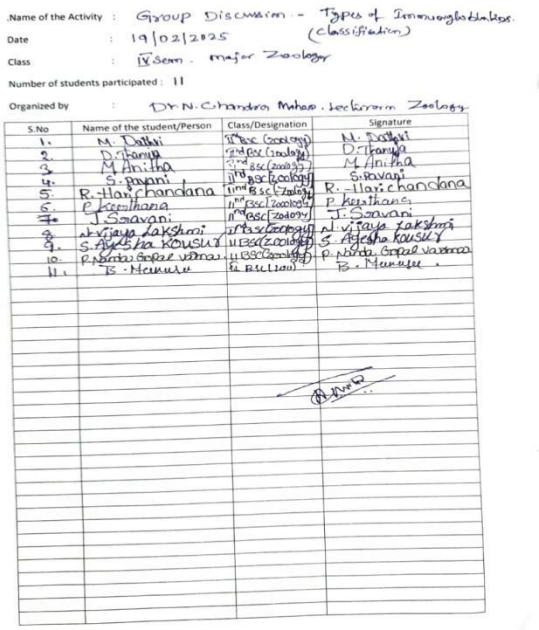
<u>Discussed points</u>

1. Definition of Immunoglobulin

2. Classes of Immunoglobulins.

3. Structure, special features and functions of Immunoglobulins.



Name of the Activity : Group Discussion - Types of Immunoglobulins (Classification)

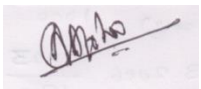
Date : 19/02/2025

Class : IV Sem. major Zoology

Number of students participated : 11

Organized by : Dr. N. Chandra Mohan, Lecturer in Zoology

S.No	Name of the student/Person	Class/Designation	Signature
1.	N. Dathri	IV BSc (Zoology)	N. Dathri
2.	D. Thanuja	IV BSc (Zoology)	D. Thanuja
3.	M. Anitha	IV BSc (Zoology)	M. Anitha
4.	S. Pavani	IV BSc (Zoology)	S. Pavani
5.	R. Hayachandana	II BSc (Zoology)	R. Hayachandana
6.	P. Keerthana	II BSc (Zoology)	P. Keerthana
7.	J. Sravani	II BSc (Zoology)	J. Sravani
8.	N. Vijaya Lakshmi	II BSc (Zoology)	N. Vijaya Lakshmi
9.	S. Ayesha KOUSER	II BSc (Zoology)	S. Ayesha KOUSER
10.	P. Nanda Gopal Varma	II BSc (Zoology)	P. Nanda Gopal Varma
11.	B. Munnee	II BSc (Zoology)	B. Munnee



Signature of the lecturer: Dr. N. Chandra Mohan