

**GOVERNMENT DEGREE COLLEGE
AVANIGADDA-521121**

Academic year 2022 -23

GUEST LECTURER

BY

**M. MALYAADRI IN CHEMISTRY
SRR AND CVR GOVT DEGREE COLLEGE
VIJAYAWADA**



TOPIC : NMR SPECTROSCOPY

Department Of Chemistry

Class: III B.Sc (M.P.C) & II B.Voc: Aquaculture

Place:Avanigadda.

Date: 29.11.2022

From

SMT.K.SUJATHA,M.Sc,M.Phil,

I/C Dept.Of Chemistry,

Government Degree College,

Avanigadda.

To

The Principal,

Government Degree College,

Avanigadda.

Respected Madam,

I want to arrange a guest lecture for II BSC MPC &B.voc (Aquaculture) Students on "NMR Spectroscopy" by Dr.M.Maalyadri garu, lecturer in chemistry, SSR & CVR Govt Degree College , at Vijayawada. Please permit me for the above.

Thanking you.

Yours Faithfully

Sujatha

LECTURER IN CHARGE
Department Of Chemistry
Govt. Degree College, AVANIGADDA

accepted
D.~K.



GOVT. DEGREE COLLEGE

AVANIGADDA-521121. KRISHNA DT. (A.P).

NAAC - B



gdcjkc.avanigadda@gmail.com

www.gdcavanigadda.ac.in

☎ 08671-272261

☎ 94-94-299418

WINNERS ARE FORGED HERE

From
The Principal
GDC, Avanigadda

To
The Principal
SRR & CVR College (A)
Vijayawada

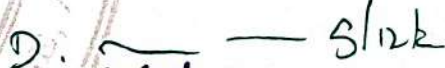
Respected Madam,

I request you to kindly depute Dr.M.Malyadri, Lecturer in chemistry to deliver a guest lecture on "NMR Spectroscopy" on 5th December 2022 at our college.

With regards

Yours faithfully,

Avanigadda,
Dt: 29-11-2022

D.  S/rk
Principal
GOVT. DEGREE COLLEGE
AVANIGADDA, Krishna. 521 122

తెజస్వి నా వదితమంతు
MAY YOUR KNOWLEDGE BECOME BRILLIANT

Date: 29/11/2022.

Circular Guest Lecture

All the students are here by informed that Dept.Of Chemistry Organize guest lecture on 5 th December 2022, Monday on the topic "NMR Spectroscopy " Lecture will be delivered by Dr.M.Maalyadri garu, Lecturer in Chemistry , SSR & CVR Government Degree College , at Vijayawada. Therefore it will be mandatory for all BSC MPC & B.VOC (Aquaculture) Students.

Venue :SB4

Time: 2:30 PM

I B.VOC(Aquaculture)

Seen & Circulated
D. Nagamani
29.11.2022

II BSC MPC & B.VOC (Aquaculture)

S. Tanf
29.11.2022

GOVERNMENT DEGREE COLLEGE

AVANIGADDA-521 121.

KRISHNA DT.(A.P).

gdcjkc.avanigadda@gmail.com

NAAC-B

08671-272261

gdc-avg@rediffmail.com

08671-273008

RELIEVING CERTIFICATE

This is to certify that Dr.M.Malyadri, Lecturer in Chemistry, S.R.R & C.V.R Government Degree & PG College, Vijayawada, NTR District is here by relieved from his duties on the A.N.of 05-12-2022 after completion of Guest Lecture at Government Degree College, Avanigadda, Krishna District on 05-12-2022.

D. Malyadri 5/12/22
Principal
GOVT. DEGREE COLLEGE
AVANIGADDA, Krishna Dt. 521121.

Received copy

Dr. Malyadri
05/12/2022

CURRICULUM VITAE

Dr. Mamidala Malyaadri
s/o Mamidala Kondaiah
Gudevaripalem(Post),
Pedacherlo Palli (Mandal),
Prakasam(District).
Andhra Pradesh-523111

E-mail : malyaadri@gmail.com
Contact number: 9490010521(mobile).

Career objective: To do good research work in the area of Catalysis along with academic activities and help in the growth of poor students studying in government institutions.

Educational qualifications:

Examination/Degree	Institution	Year	Percent marks
Doctor of Philosophy Ph.D	Andhra university campus, Visakhapatnam. A.P. (Worked at Indian Institute of Chemical Technology)	2017	
CSIR/UGC-NET-JRF	CSIR, New Delhi	Dec-2008 June-2010 Dec-2010 Dec-2011	JRF JRF JRF JRF with All India Rank- 70
APSET	Andhra university	2019	54%
Master of Science (Chemistry)	Andhra university campus, Visakhapatnam. A.P.	2002-2004	63.21 %
Bachelor of Education (Physical Science)	Acharya Nagarjuna University, A.P	2005-2006	73.6 %
Bachelor of Science (Mathematics, Physics, Chemistry)	T.J.P.S.College, Acharya Nagarjuna University,A.P	1998-2001	74.88%
Intermediate (Mathematics, Physics, Chemistry)	Government Junior College, Kanigiri, Board of Intermediate Education, A.P	1996-1998	59.3%
SSC	ZP High School Pedaalavalapadu Board of Secondary School Education, A.P	1995-1996	67.88%

Work Experience:

Institution	Designation	Nature of work	Period
Government Degree College, Tanuku, AP	Lecturer in Chemistry	Teaching for UG and PG students	26th December-2011 to - 3rd September 2015
Government Degree College, Avanigadda, AP	Lecturer in Chemistry	Teaching for UG students	4th September-2015 to 23rd September 2021
SRR & CVR Government Degree College (A), Vijayawada, AP	Lecturer in Chemistry	Teaching for UG and PG students	24th September-2021 to Till date
R.R.S.R.K.R.R.College, Bobbili	Lecturer in Chemistry	Teaching for UG and PG Students	July 2004-June2005
M.R.P.G.College, Vizianagaram.	Head of the department	Teaching for PG students	July 2006-Jan2008
Aditya Degree College Visakhapatnam.	Lecturer in Chemistry	Teaching for UG and PG students	July2008-April2009
Cramster.com	Subject Matter Expert- Chemistry	Online tutoring	February2008-July2009
IICT (CSIR Laboratory), Hyderabad	Junior Research Fellow. (JRF)	Research in the area of Catalysis.	Aug-2009 to Aug-2011
IICT (CSIR Laboratory), Hyderabad	Senior Research Fellow. (SRF)	Research in the area of Catalysis.	Aug-2011 to Dec-2011
TutorVista.com	Online Tutor (college grade)	Online tutoring to college students (USA & Canada)	March 2010 to December-2011

Research Work

Minor Research Project:

Title: "Conversion of glycerol into glycerol carbonates using heterogeneous catalysts"

Amount Sanctioned: 400000

Period of Project: May-2014 to April-2016

List of publications

1. Synthesis of glycerol carbonate by transesterification of glycerol with dimethyl carbonate over Mg/Al/Zr catalysts

M. Malyaadri, K. Jagadeeswaraiiah, P. S. Sai Prasad, N. Lingaiah*

Applied Catalysis A: General 401 (2011) 153– 157

Papers Presented in Conferences: 08

Academic Achievements:

- 1) **Subject Expert in LMS Question Bank Generation Selected by CCE**
- 2) **I have selected as Lecturer in Chemistry in Government Degree Colleges in Andhra Pradesh by Andhra Pradesh Public Service Commission in December 2011.**
- 3) **Selected as Patent Examiner in Chemistry (Group-A Gazetted Officer) in Department of Industrial Policy and Promotion under Ministry of Commerce and Industry in 2011.**
- 4) **Qualified in Screening Test of Assistant Professors in A.P. Universities.**
- 5) **Secured AIR-493 and 92.71 percentile in GATE-2009.**
- 6) **Qualified in DRDO Scientist Entry Test-2008.**
- 7) **Qualified in BARC Scientist Entry Test-2009.**

Academic Associations

- 1. Associate NCC Officer (ANO)**
- 2. Member in Career Guidance Cell**

Personal Details:



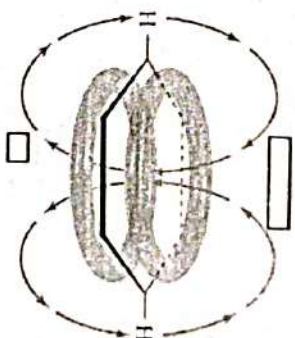
Name : MAMIDALA MALYAADRI
Father name : Mamidala Kondaiah
Date of Birth : July 9th, 1981
Sex : Male
Marital Status : Married
Nationality : INDIAN
Address for communication : c/o G V Siva Prasad
Plot No. 46. D.No. 40-9/10.
Municipal Employees Colony,
Near K.J. Gupta Kalyana Mandapam
Vijayawada-520010.
Permanent address : s/o Mamidala Kondaiah
Gudevaripalem(Post),
Pedacherlo Palli (Mandal),
Prakasam (Dt). 523111. A.P.
Languages Known : Telugu, English, and Hindi

Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Hyderabad.
Date: 08/11/2021

(Dr. MAMIDALA MALYAADRI)



Nuclear Magnetic Resonance Spectroscopy

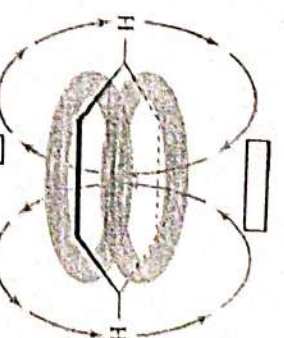
Dr. M MALYAADRI

Lecturer in Chemistry,

Government Degree College,

SRR & CVR Government Degree College (A),

Vijayawada

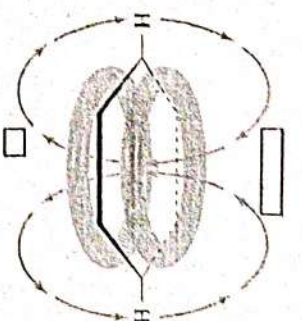


Introduction

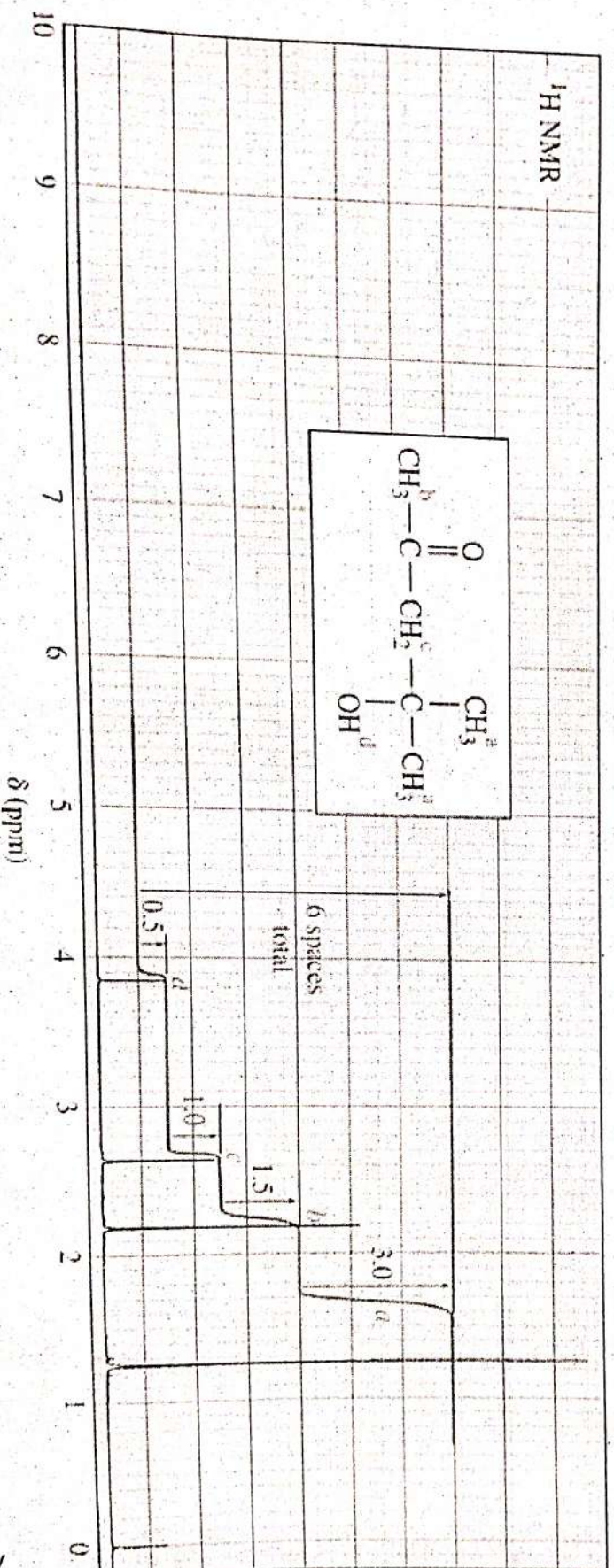
- NMR is the most powerful tool available for organic structure determination.
- It is used to study a wide variety of nuclei:
 - ^1H
 - ^{13}C
 - ^{15}N
 - ^{19}F
 - ^{31}P

⇒

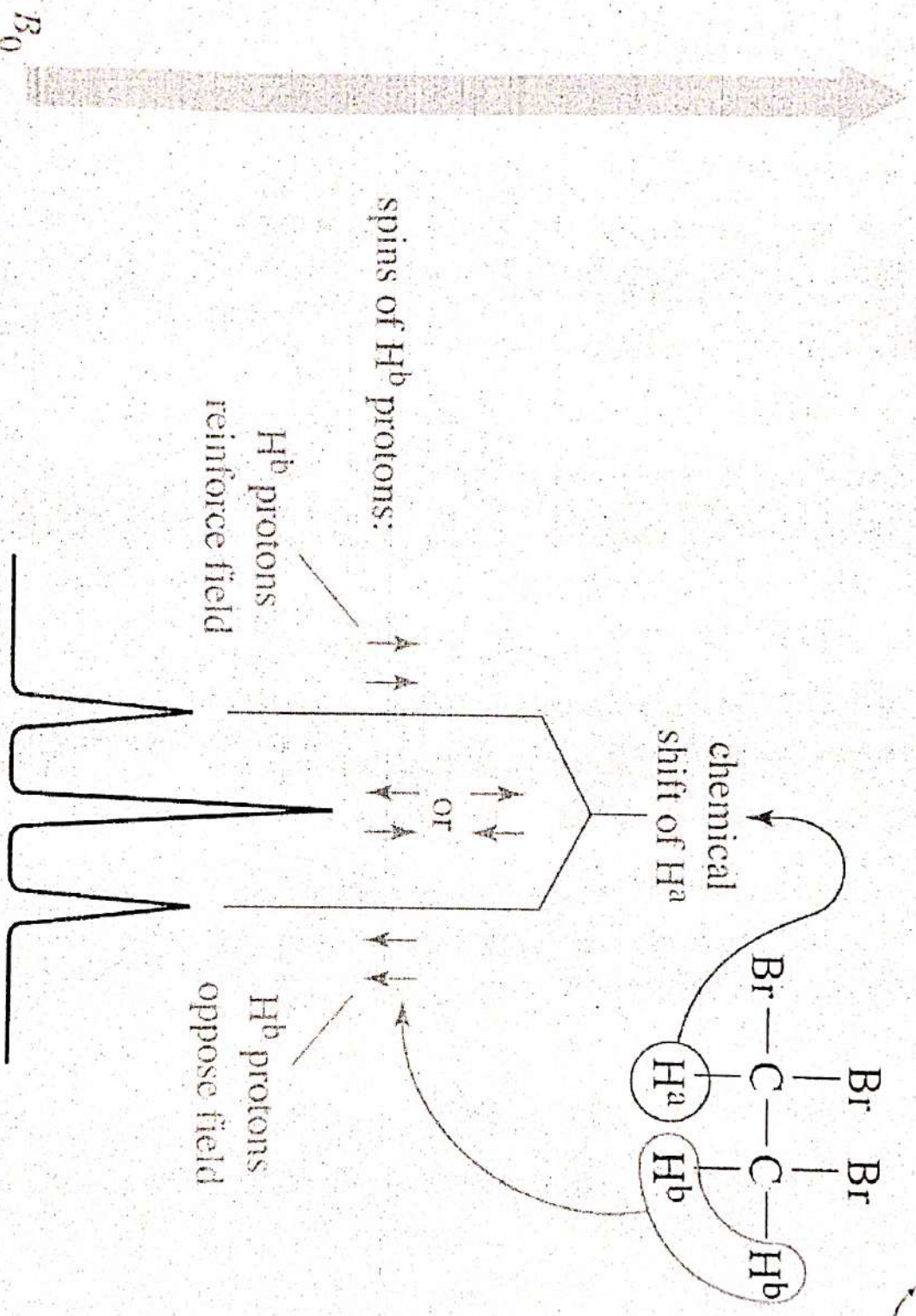
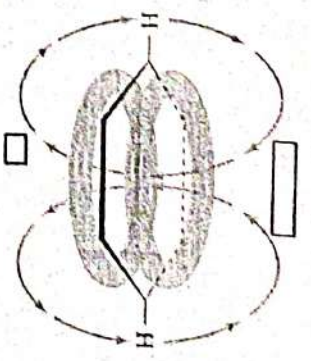
How Many Hydrogens?



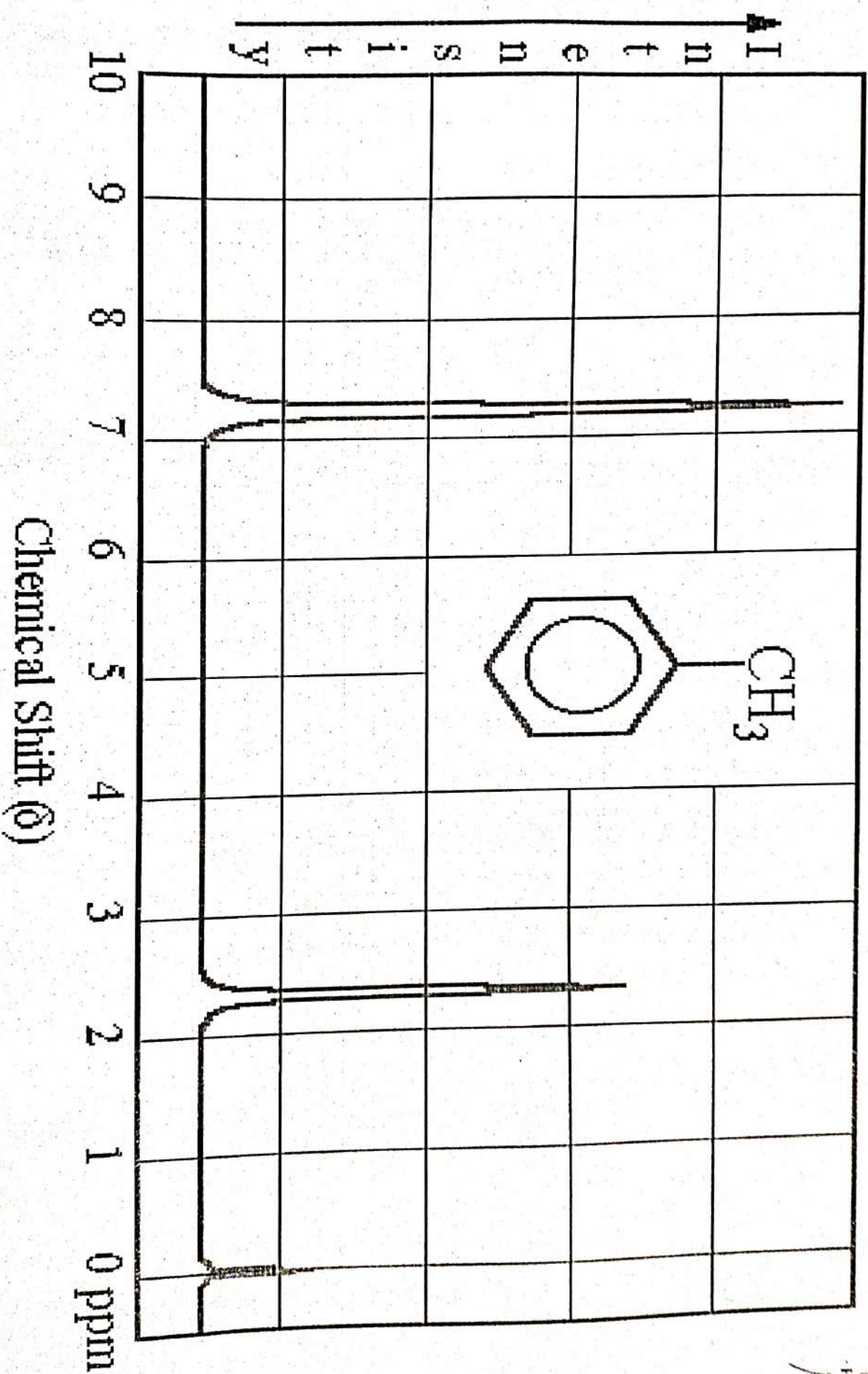
When the molecular formula is known, each integral rise can be assigned to a particular number of hydrogens.



Triplet: 2 Adjacent Protons



Proton NMR of Toluene





GPS Map
Camera Lite

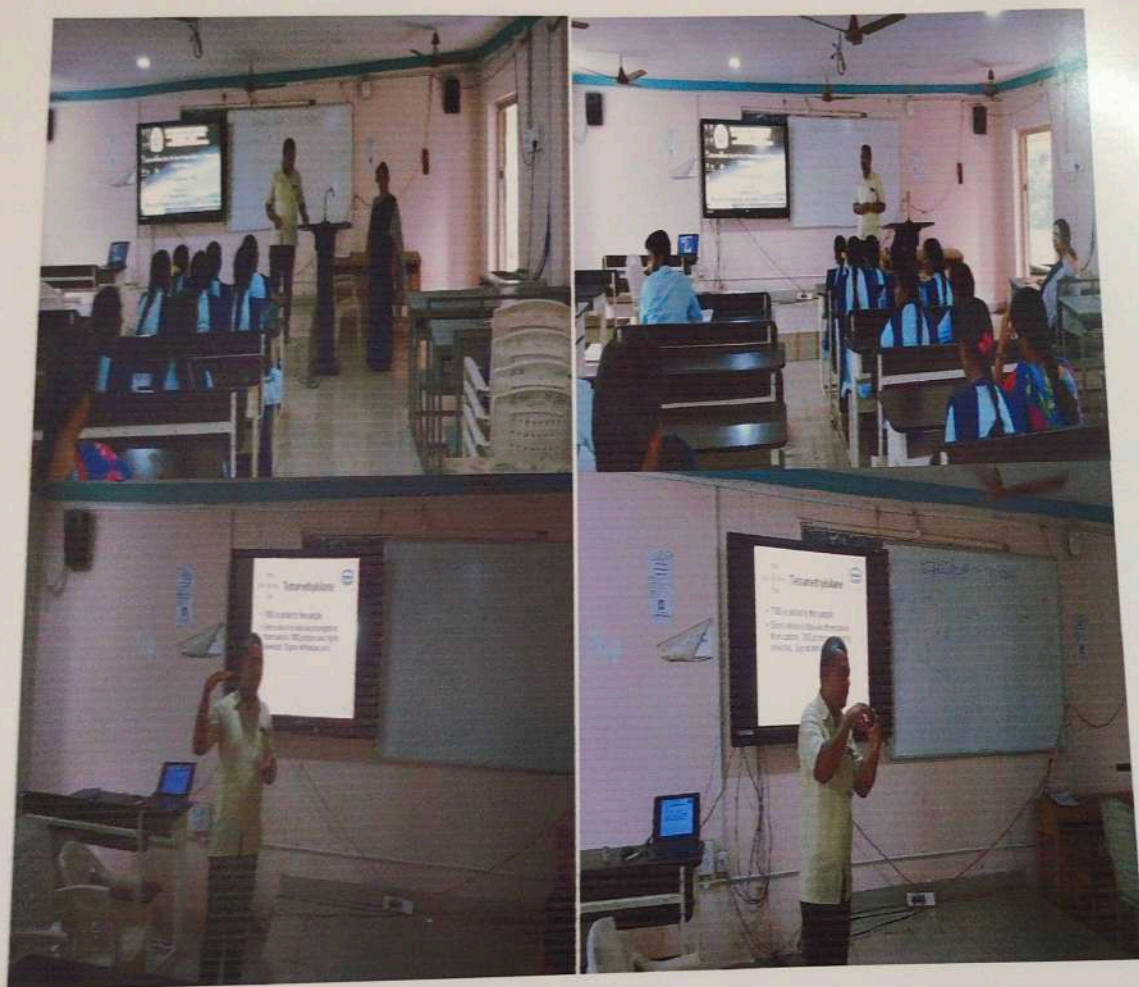
Latitude
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Longitude
80.91525823809206°

Local 04:16:47 PM
GMT 10:46:47 AM
Altitude 8.69 meters
Date Mon, 05 Dec 2022

2WH7+JR7, Avanigadda, Andhra Pradesh 521121, India
Note : G.D.C,Avanigadda

స్థానిక ప్రభుత్వ డిగ్రీ కళాశాల అవనిగడ్డలో రసాయన శాస్త్ర విభాగం ఆధ్వర్యంలో గెస్ట్ లెక్చర్ నిర్వహించడం జరిగింది. ప్రెన్సిపల్ డాక్టర్ డి ఉమారాణి అధ్యక్షతన జరిగిన ఈ కార్యక్రమానికి గెస్ట్ లెక్చర్ గా యెస్.ఆర్.ఆర్ మరియు సి.వి.ఆర్ కళాశాల, విజయవాడ, రసాయన శాస్త్ర అధ్యాపకులు మామిడాల మాల్యార్తి హాజరయ్యారు . బిఎస్సీ విద్యార్థులకు న్యూక్లియర్ మ్యాగ్నెటిక్ రెసనెన్స్ యొక్క ప్రధాన అంశాలు మరియు దానివల్ల ఉపయోగాలు గురించి విద్యార్థులకు వివరించారు. విద్యార్థులకు ఉపయుక్తమైన ఈ కార్యక్రమాన్ని ఏర్పాటు చేసిన రసాయన శాస్త్ర విభాగాధిపతి కె. సుజాత గారిని కళాశాల విద్యా కుటుంబం అభినందించారు.

GUEST LECTURE
BY
DR.M.MALAYAADRI



TOPIC: NMR SPECTROSCOPY



**Government Degree College
Avanigadda - 521121
Feedback from Students**

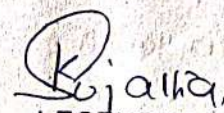
Name of the Department: Chemistry
Name of the Activity: Guest Lecture
Date: 5.12.2022

Name of the Resource Person/ Presenter: Dr. M. Malyadri Garu
SRR & CVR College, Vijayawada.
FEEDBACK FORM

(Please give rating as 3 - Very Good, 2 - Good, 1 - Satisfactory for Preparation Levels, Content, Communication Skills and Relevance to the Topic)

S. No	Class	Hall Ticket No.	Name of the Student	Preparation Levels	Content	Communication Skills	Relevance to the Topic	Any other Observations	Signature of the Participant
1.	MPC	2129125052	Ch. Dejenra Kumari	3	2	3	3	-	Ch. Dejenra Kumari
2.	M.P.C	2129125052	D. pavan kumar	3	2	3	3	-	D. pavan kumar
3.	m.p.c	2129125052	J. priyanka	3	2	3	2	-	J. priyanka
4.	M.p.c	2129125052	k. lakshmi	3	2	3	2	-	k. lakshmi
5.	MPC	2129125052	S. Manohar	3	2	3	2	-	S. Manohar
6.	MPC	2129125052	sk. hasimunnisa	3	2	2	2	-	sk. hasimunnisa
7.	IIA	2129125052	B. Ramyasri	3	3	2	2	-	B. Ramyasri
8.	IIA	2129125052	B. Manthriya	3	3	2	2	-	B. Manthriya
9.	IIA	2129125052	B. Nageswari	3	3	2	2	-	B. Nageswari
10.	IIA	2129125052	Ch. moshe	3	3	3	3	-	Ch. moshe
11.	IIA	2129125052	Ch. bhannu prakas	2	3	2	3	-	Ch. bhannu prakas
12.	IIA	2129125052	D. Naveen	3	3	2	3	-	D. Naveen
13.	IIA	2129125052	S. satyameeni	3	3	2	3	-	S. satyameeni
14.	IIA	2129125052	k. vasanthakumari	3	3	2	3	-	k. vasanthakumari
15.	IIA	2129125052	E. Venkateswarlu	3	3	2	3	-	E. Venkateswarlu
16.	IIA	2129125052	G. Sankar	3	3	2	3	-	G. Sankar
17.	IIA	2129125052	b. AJAY	3	3	2	3	-	b. AJAY
18.	IIA	2129125052	lo. Prabhakar	3	3	2	2	-	lo. Prabhakar
19.	IIA	2129125052	K. Tyobin	2	3	2	3	-	K. Tyobin
20.	IIA	2129125052	K. musali	3	3	2	3	-	K. musali
21.	IIA	2129125052	M. sruvanti	3	3	2	3	-	M. sruvanti
22.	IIA	2129125052	M. Ramu	3	3	2	2	-	M. Ramu
23.	IIA	2129125052	P. sharan kumar	2	3	2	2	-	P. sharan kumar
24.	IIA	2129125052	P. dhanush	3	3	3	2	-	P. dhanush
25.	IIA	2129125052	V. Prabhakar	3	3	2	3	-	V. Prabhakar
26.	IIA	2129125052	S. Charan	3	3	2	3	-	S. Charan

26	I. B.Voc	K. Subrahmanyam	3	2	3	3	—	K. Subrahmanyam
27	I. B.Voc	G. Shiva Satish	3	3	3	3	—	G. Shiva Satish
28	I. B.Voc	V. Eswari Kumar	3	2	3	3	—	V. Eswari Kumar
29	I. B.Voc	M. Prasanna Kumari	3	2	2	3	—	M. Prasanna Kumari
30	I. B.Voc	D. Yamini	3	2	2	3	—	D. Yamini


K. J. J. J.
 LECTURER IN CHARGE
 Department Of Chemistry
 Govt. Degree College, AVANIGADDA