



B.L.D.E.ASSOCIATION'S

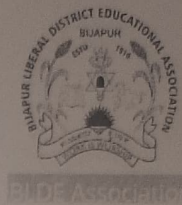
S. B. ARTS AND K. C. P. SCIENCE COLLEGE,

SHRI B. M. PATIL ROAD (Solapur Road), VIJAYAPUR

ACCREDITED at 'B++' Grade with 2.99 CGPA in 4th Cycle by NAAC

Phone: (08352) – 261766, (08352) 262770 Extn. 2223, 2224

Fax: 08352 –261766 E-mail: bldeasbkcp@gmail.com Web: www.bldeasbkcp.ac.in



PG DEPARTMENT OF
CHEMISTRY

REPORT ON

CLASS SEMINARS BY

STUDENTS

2022-23



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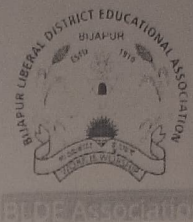
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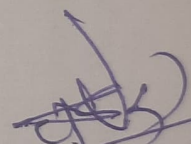


Date: 09/01/2023

PG Department of Chemistry

NOTICE

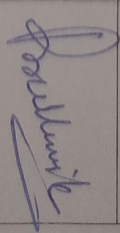
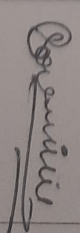
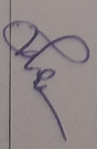
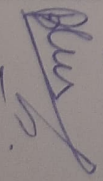
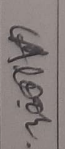
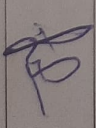
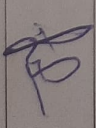
All students of M.Sc. III Sem are hereby informed to conducting seminars from following dates and topics (list enclosed)

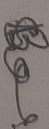
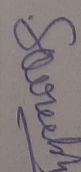
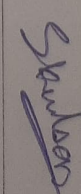
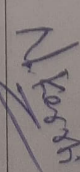
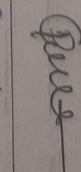
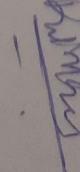
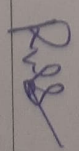
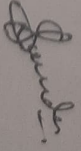

01/1/23
Co-ordinator

Co-ordinator

P.G.Department of Chemistry
S.B.Arts & K.C.P. Science College
Vijayapur-586101.

B.L.D.E. Association's
S.B. Arts and K.C.P Science College Vijayapur
Post Graduate Department of Chemistry
M.Sc. IIIrd Sem- -2022-23
Seminar Topics

Sl. No	Name of the student	Seminar	Date of the seminar	Signature
1	Apoorva Mirajkar	Introduction, definition of drug requirements of drugs, chemotherapy, pharmacokinetics, pharmacodynamics, metabolites and antimetabolites Prodrug and soft drugs, agonists and anti-agonists,	16-01-23	
2	Divya R. Sidaraddi	Introduction, adsorption, isotherms (Gibbs, Freundlich and Langmuir), surface excess; BET isotherm, surface area, pore size and acid strength measurement.	16-01-23	
3	Pruthvik B Pujari	LB film, membrane equilibrium, micellisation, catalytic activity, surface active agent, Classification of surface active agent, Critical Micellar Concentration (CMC).	17-01-23	
4	Ashwini Sarawad	Factor affecting the CMC of surfactants. Hydrophobic interaction, thermodynamics of micellization-phase separation and mass action model, micro emulsion, reverse micelles.	17-01-23	
5	Daneshwari A Jagadale	Essential and trace elements, biological functions of biometals, active transport of cations (Na and K pump),	18-01-23	
6	Soumya Babaleshwar	Thermodynamics of adsorption: interpretation of chemisorption based on the structure and nature. Kinetic of surface reactions: rate determining step, various types of reactions, applications of adsorption.	18-01-23	
7	Soumya Kollappanavar	High vacuum, Gas marks, Softening of hard water, Drying gases, Decolorisation, Refining of petroleum and vegetable oils.	19-01-23	
8	Bhagyashree Yadawad	concept of drug receptor, elementary treatment of drug receptor interactions theories of drug activity-occupancy theory rate theory, Induced fit theory, classification of drugs	19-01-23	
9	Chaitra Aloor	ionophores, different types of naturally occurring ionophores.	20-01-23	
10	Faishcen Jahagiradar	Metalloenzymes; metalloproteins as enzymes – carboxy peptidase, catalases, peroxidases, cytochrome P450.,	20-01-23	
11	Shasankumar Dixit	Sulphonamides: Introduction, classification synthesis and SAR studies of	21-01-23	

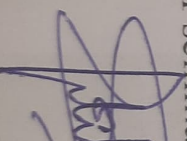
		sulphathiazole, classification synthesis and SAR studies of sulphanilamide, sulphadiazine.		
12	Suresh Biradar	superoxide dismutase, copper oxidases, vitamin B12 coenzyme, synthetic model compounds	21-01-23	
13	Sourabh M Kamble	Metals in medicine- metal deficiency (Fe, Mn, Cu and Zn), chelation therapy and metal complexes as drugs.	23-01-23	
14	Shankar P Kumbhar	Chlorophyll and its role in photosynthesis: Transport and storage of dioxygen-heme proteins,	23-01-23	
15	Navya Keerthi	oxygen uptake functions of haemoglobin, myoglobin, hemerythrin and hemocyanins, synthetic oxygen carriers.	24-01-23	
16	Prathiba Chougale	Antimalarials: Introduction, classification synthesis and drug action-Chloroquin Classification synthesis and drug action Pamaguin.	24-01-23	
17	Rinku Patel	Analgesics: Introduction, classification, synthesis and drug action-Paracetamol, classification, synthesis and drug action- aspirin, salol, Classification, synthesis and drug action- phenyl butazone, antipyrine	25-01-23	
18	Rachana Samalad	Prevention of evaporation of water. In curing diseases, concentration of ores, Adsorption indicators.	25-01-23	
19	Laxmi Saravade	Anti-inflammatory: Introduction, classification of -Indomethacin synthesis and drug action-Indomethacin Classification synthesis of - ibuprofen and drug action- ibuprofen	25-01-23	

- ☐ Seminar commence from 16-01-23,
- ☐ Daily two students, each student has maximum 15min.
- ☐ No changes seminar topic
- ☐ and every student has to submit hard copy of seminar on the day of Presentation


01/12/23

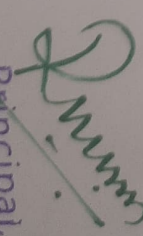
Co-ordinator of Chemistry

P.G. Department of Chemistry,
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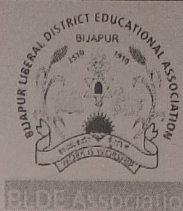
IQAC, Co-ordinator

S.B.Arts & K.C.P. Science College,
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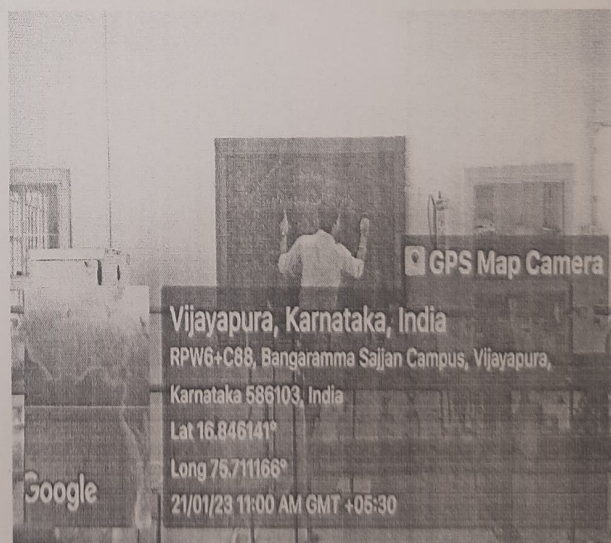
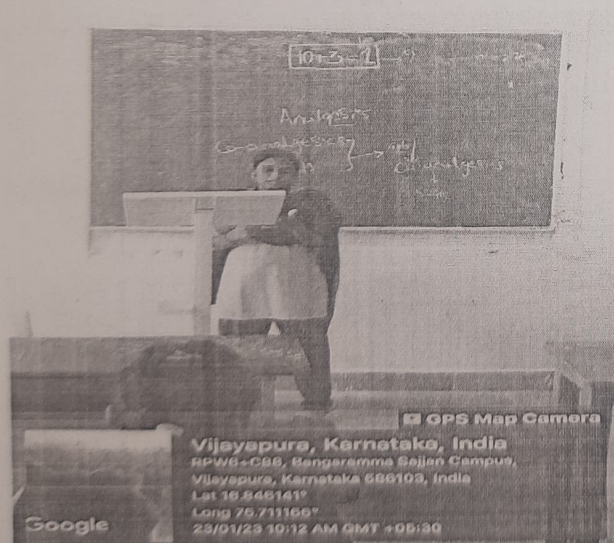
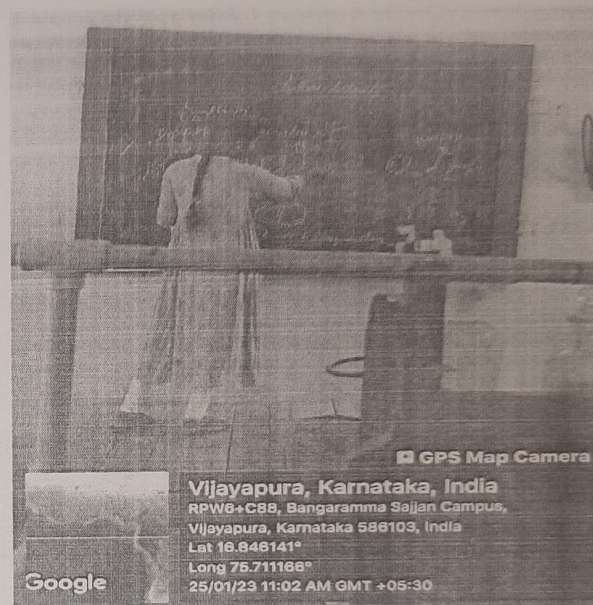
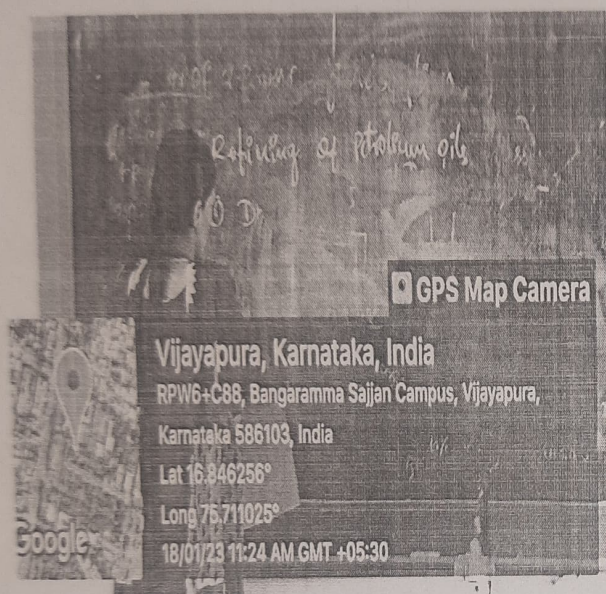

Principal,
S.B. Arts and KCP Science College
VIJAYAPUR



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PG Department of Chemistry Seminar 2022-23



Seminar presented by the III sem students for the year 2022-23

Co-ordinator
P.G. Department of Chemistry
S.B. Arts & K.C.P. Science College,
Vijayapura-586101.

IQAC, Co-ordinator
S.B. Arts & K.C.P. Science College,
Vijayapura.

Principal,
S.B. Arts and KCP Science College
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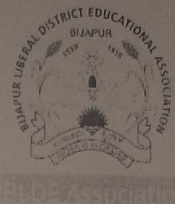
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PG Department of Chemistry
Seminar 2022-23

M.Sc III semester

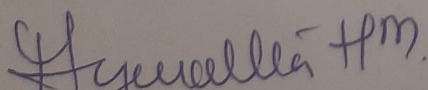
Name of the student: Shasankumar Dixit

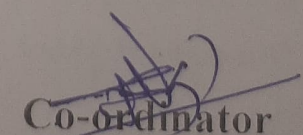
Reg No: P15KM21S0012

Subject: Organic chemistry

Seminar Topic: Sulphonamides: Introduction, classification Synthesis
and SAR studies of sulphathiazole

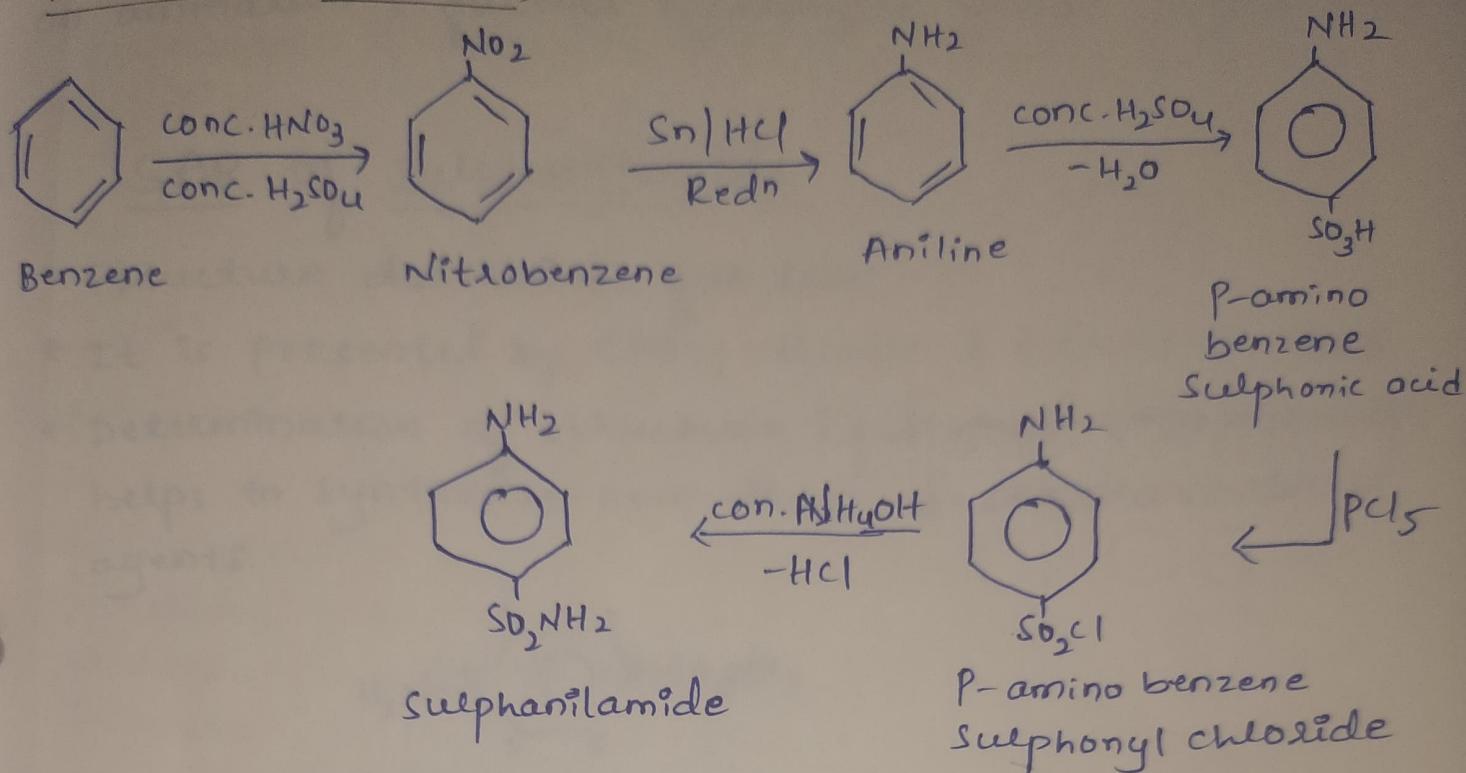
Seminar Date 21-01-23.


Subject teacher


Co-ordinator
Co-ordinator
P.G. Department of Chemistry
S.B.Arts & K.C.P. Science College,
Vijayapur 586101

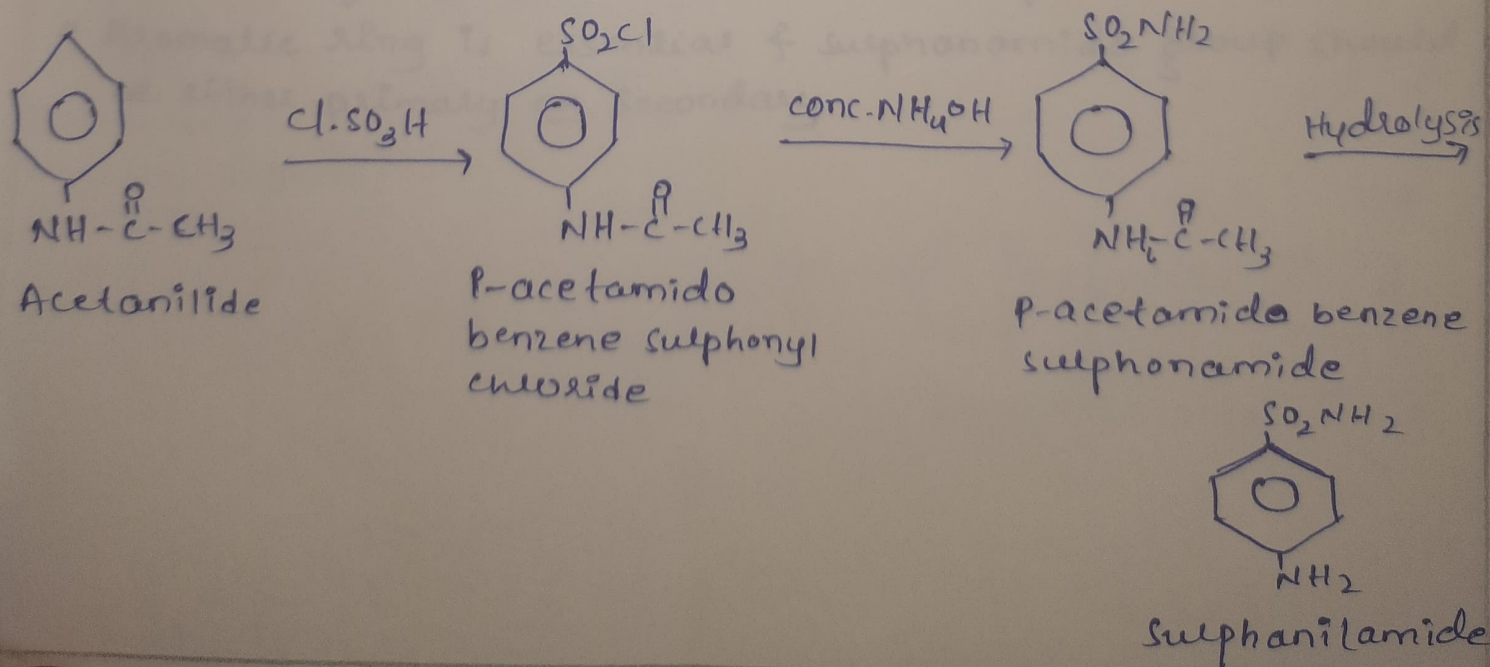
① Synthesis of Sulphanilamide

Method I (Benzene)



Nitration for benzene rings gives Nitrobenzene.
 Chemical reduction for the Nitro group gives Aniline.
 p-amino benzene sulphonic acid is obtained by treating aniline with hot conc. H_2SO_4 . Chlorination with phosphorous penta chloride gives p-amino benzene sulphonyl chloride. This is on amination with conc. Nitric acid ammonia solution yields the sulphanilamide.

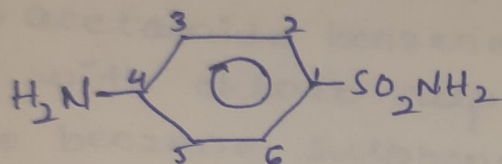
Method II :- (Acetanilide)



Acetanilide on treatment with chlorosulphonic acid gives p-acetamido benzene sulphonyl chloride which on amination & further hydrolysis yields sulphanilamide.

SAR of Sulphanilamide

- * structure determines function
- * It is presented by Crum-Brown & Fraser in 1865
- * Determination of structure / function relationships helps to synthesize new drugs & pharmaceutical agents.



- * Sulphanilamide drugs are having ~~the~~ antibacterial activity. This is due to the presence of SO_2NH group.
- * N^{H} Amine group is directly attached to phenyl group.
- * N^{I} Amide group is attached to phenyl ring through the sulphonyl group.
- * Amino group & Sulphonamide group should be para to each other.
- * Amino group should be unsubstituted. If it is replaced by any other group it will lose its activity.
- * Aromatic ring is essential & sulphonamide group should be either primary or secondary.