

**VIVEKANAND EDUCATION SOCIETY'S  
COLLEGE OF PHARMACY**

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai – 400 074

Sindhi Linguistic Minority, Approved by AICTE, DTE, Pharmacy Council of India & Govt. of  
Maharashtra, Affiliated to University of Mumbai

B.Pharm Programme is accredited by NBA, New Delhi from 2016-17 to 2021-22

**2.2.1**

***The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners***



# Measurable criteria to identify slow learners and advanced learners

**VES College of Pharmacy Mumbai**  
**Second Year B Pharmacy SEM IV CBCS Rev 2019 (AY 2022-23)**  
**Consolidated Sessional Marksheet - Theory**

Sr. No.	Exam No.	Name of Student	Pharmaceutical Organic Chemistry III	Medicinal Chemistry I	Physical Pharmaceutics II	Pharmacology I	Pharmacognosy & Phytochemistry I
92	49223	SWASTHIKA V S	19	19	22	19	20
93	49323	TANPURE SIDDHI YOGESH	17	20	20	20	19
94	49423	TARDEJA PARIDHI KAMALKUMAR	16	16	22	21	20
95	49523	TERSE SIDDHESH KESHAV	21	23	24	22	23
96	49623	THORAT YASH UTTAM	19	17	20	20	18
97	49723	TIWARI SUPRAGYA RAKESH CHANDRA	18	15	21	19	18
98	49823	WAGH SUKHADA SUNIL	20	21	19	20	19
99	49923	YADAV DEVIKA LOKNATH	22	24	22	21	21
100	410023	YADAV PRANJAL PRADIP	23	24	23	23	22
101	410123	DAHATE ESHA VINOD	10	11	16	17	14
102	410223	ANSARI MOHAMMAD ABDULLAH ZIYA UDD	17	15	20	16	19
103	410323	CHASKAR SNEHAL SANTOSH	15	17	18	16	15
104	410423	DHAMAPURKAR PRANJALI SANJAY	12	16	19	17	18
105	410523	DHUMAL CHAITALI NAVNATH	18	21	21	19	20
106	410623	GARALE DHANSHRI TANAJI	18	18	21	19	19
107	410723	GAVAND MEETALI SATISH	18	18	21	15	18
108	410823	ISRANI SACHI RAVI	20	23	22	22	20
109	410923	PAIK SHEJAL AVINASH	18	22	22	19	21
110	411023	PRATHYUSH MURALEEDHARAN	21	22	20	20	22
111	411123	SHINDE KUNIKA DATTARAM	19	20	21	19	19
112	411223	SHINDE SANIYA PRAVIN	18	17	20	19	18
113	411323	WADHWANI SONIYA VIKRAM	19	17	20	19	20
114	411423	WELANJKAR GAJESH BHARAT	11	16	17	15	16
		<b>No of students &gt;80%</b>	<b>106</b>	<b>109</b>	<b>113</b>	<b>107</b>	<b>112</b>
		<b>No of students 60-80%</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>1</b>
		<b>No of students 50-60%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>
		<b>No of students &lt;50%</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>



# Measures to enhance the skills of fast learners



**Vivekanand Education Society's College of Pharmacy**  
Hashu Advani Complex, Near Collector's Colony, Chembur (E) Mumbai 400074

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# Measures to enhance the skills of fast learners: Participation Inter-University Research Festival-Aavishkar



University of Mumbai

17<sup>th</sup>  
**Aavishkar**

Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

## *Certificate of Participation*

This is to Certify that **Ms. Dumbre Aayushi** of **Vivekanand Education Society College of Pharmacy, Chembur** has participated and presented a Research Project titled **PHINACO - Pharma Industry-Academic Collaboration in Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Bharati Vidyapeeth's College of Pharmacy, Belapur, Navi Mumbai on December 24, 2022 for **Pharmacy Colleges/Institutes** zone.

**Dr. Minakshi Gurav**  
OSD,  
Aavishkar,  
University of Mumbai

**Dr. Sunil Patil**  
Director,  
Department of Students' Development,  
University of Mumbai

December 24, 2022  
Belapur, Navi Mumbai





**Measures to enhance the skills of fast learners: Completion of online course.**

# CERTIFICATE OF COMPLETION

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*We hereby certify that*

*has successfully completed the 2 hour course*

Date:







**Vivekanand Education Society's College of Pharmacy**  
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# Measures to enhance the skills of fast learners: Novel and Innovative ways to GPAI and NIPER Preparation

# VES COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074

## Activity Report A.Y 22-23

### COMPETITIVE EXAMINATION GUIDANCE COMMITTEE

IQAC ACTIVITY No: IQAC/2022-23/CEGC/02


#### Details of activity:

Name of the Activity	Novel and Innovative ways to GPAT and NIPER Preparation	Activity No.	IQAC/2022-23/CEGC/02
Day, Date	Friday, 27/01/2023	Department/Committee/Faculty	Competitive Examination Guidance Committee
Venue	Seminar Hall, VESCOP	Time	11.45 am to 1.15 pm
Nature of activity	Indoor/ <del>Outdoor</del> (Tick mark appropriate)	Total no. of participants	16

#### Activity Information:

Objectives	Introducing the various Novel and Innovative ways to GPAT and NIPER Preparation
Methodology	Seminar was conducted offline in Seminar Hall, VESCOP
Outcomes	Students became aware of the various Novel and Innovative ways to GPAT and NIPER Preparation

#### PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

<input checked="" type="checkbox"/>	Notice and communication	<input type="checkbox"/>	Feedback form
<input type="checkbox"/>	Student list of participation	<input checked="" type="checkbox"/>	Impact analysis
<input type="checkbox"/>	Photos	<input type="checkbox"/>	Media news details
<input type="checkbox"/>	Certificate	<input checked="" type="checkbox"/>	Any other (Screenshot of the event)
Name & Signature of Coordinator	Name & Signature of Head/Committee In charge	Name & Signature of IQAC Coordinator	
 Mrs. Pushpalata Chougule	 Dr. Anand Chintakrindi	 Dr. Rajashree Hirlekar	

# VES COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074



**Mumbai, Maharashtra, भारत**

Hashu Advani Memorial Complex, Behind, Swami Vivekanand Jr College Rd, Collector Colony, Chembur, Mumbai, Maharashtra 400074, भारत

Lat 19.046015°

Long 72.889948°

27/01/23 12:05 PM



**Mumbai, Maharashtra, भारत**

Hashu Advani Memorial Complex, Behind, Swami Vivekanand Jr College Rd, Collector Colony, Chembur, Mumbai, Maharashtra 400074, भारत

Lat 19.046021°

Long 72.889954°

27/01/23 12:05 PM



Anand Chintakrindi <anand.chintakrindi@ves.ac.in>

## Invitation for Seminar on 'Novel and Innovative ways to GPAT and NIPER Preparation' to be held on 27th January 2023

Competitive Exam Guidance **vescop** <ceg.vescop@ves.ac.in>

25 January 2023 at 12:21

To: pharmaelite17@gmail.com

Cc: Supriya Shidhaye <supriya.shidhaye@ves.ac.in>, anand.chintakrindi@ves.ac.in, pushpalata.chougule@ves.ac.in, jeeeli.shiriskar@ves.ac.in, divya.menon@ves.ac.in, Prachitee Ayare <prachitee.ayare@ves.ac.in>

Dear PHARMAELITE TEAM,

It gives us immense pleasure to invite you to conduct the Seminar on 'Novel and Innovative ways to GPAT and NIPER Preparation' to be held on, 27th January, 2023, organized by the Competitive Exam Guidance Cell of Vivekanand Education Society's College of Pharmacy.

As per the schedule we solicit your presence for the session from 11:45 am - 1:15 pm, to inform and guide the student participants in relation to GPAT and NIPER Exams.

Thanking you.

Regards,

TEAM CEGC VESCOP



- ☐ NAAC Accredited till 2027 – Grade A+ | 3.46 CGPA)
- ☐ AICTE-CII 2018- Awarded with First rank Pan India as Best Industry linked Institute
- ☐ AICTE-CII survey 2019 platinum ranking in Industry linked Pharmacy Institute (Established Institutes)
- ☐ NIRF-2020 India ranking - 63<sup>rd</sup> under Pharmacy category
- ☐ 4 STAR rating – Institution Innovation Council 2020-21, awarded by MoE's Innovation Cell
- ☐ Award winning consistent performances at AVISHKAR since 2013-14
- ☐ B Pharm program accredited by NBA 2019-22
- ☐ Registered as VES-Scientific and Industrial Research Organization (VES-SIRO) at DSIR
- ☐ Signatory of PRME, a United Nations initiative for sustainability
- ☐ Community Outreach Initiatives- ROTARACT Club and Public Health Office

## VES COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074

### IMPACT ANALYSIS FOR COMPETITIVE EXAM GUIDANCE CELL

Please rate using the following key-

3: Strongly agree

2: Agree

1: Disagree

Sr. No.	Student Name	Q1	Q2	Q3	Q4	Sign
1	Anjali Dighe	3	3	3	3	Anjali
2	Arunadha Baidade	3	2	2	3	Arunadha
3	Parvita Puli	3	3	3	3	Parvita
5	Shrutika Date	2	2	2	2	Shrutika
6	Shrushti Dikshit	3	2	3	3	Shrushti
7	Sneha Pillai	3	3	3	3	Sneha
8	Ishan Honavarkar	3	2	2	3	Ishan
9	Dhanashree Gaurwad	3	3	3	3	Dhanashree
10	Rane Saloni	2	3	3	3	Saloni
11	Chaitrali Shetkar	3	2	1	1	Chaitrali
12	Nikhi Vallamdas	2	2	2	2	Nikhi
13	Manoj Jha	2	3	3	3	Manoj
14	Sejal Mhatre	3	2	3	3	Sejal
15	Hreshika Mungkar	3	2	1	1	Hreshika
16	Neel Tilwani	3	2	2	3	Neel
17						
18						
19						
20						
	Average	3	3.2	3.2	3	
	% Response	75	89/100	88	88	
	PO attainment Level	3	3	3	3	

Any suggestions to improve the activity/ achieve the outcomes of the activity

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Name & Signature of Activity Coordinator:

Mrs. Pushpalata Chougule

Name & Signature of CEGC In charge:

Dr. Anand Chintakrindi

# VES COLLEGE OF PHARMACY

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## IMPACT ANALYSIS FOR COMPETITIVE EXAM GUIDANCE CELL

Academic Year: 2022-23

Date: 27/01/2023

**A. Title of the activity:** Novel and Innovative ways to GPAT and NIPER Preparation

**B. Objectives:**

1. Provide insights on competitive exams.
2. Motivate students to pursue higher education.
3. To help students identify their inclination towards the stream.

**C. Activity Outcomes**

Activity Outcome	The activity would contribute to the development of learners in the following ways:	Mapped PO	Level of Mapping
A01	Gain knowledge about the competitive exam	1	3
A02	Develop decision-making ability	2	2
A03	Identify inclination towards the stream	6	2
A05	Motivate them to pursue higher education	11	3

**D. Rate the Outcome:** This activity helped you to:

Q. No.	Question	AO mapped
1.	Gain knowledge about the competitive exam	AO1
2.	Develop decision-making ability	AO2
3.	Identify inclination towards the stream	AO3
4.	Inspire to pursue higher education	AO4

V.E.S.  
Since 1962



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# Measures to enhance the skills of fast learners: Training for Excel Calculation

## Excel Calculation

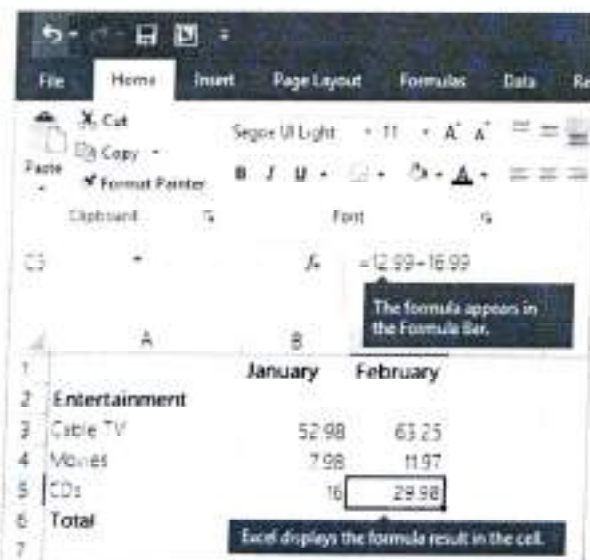
**Date:** 15/07/2022

**Name of the Speaker:** Dr. Anand Chintakrindi

**Summary:** Microsoft Excel enables users to format, organize and calculate data in a spreadsheet. By organizing data using software like Excel, data analysts and other users can make information easier to view as data is added or changed. Excel contains many boxes called cells that are ordered in rows and columns.

All formula entries begin with an equal sign (=). For simple formulas, simply type the equal sign followed by the numeric values that you want to calculate and the math operators that you want to use — the plus sign (+) to add, the minus sign (-) to subtract, the asterisk (\*) to multiply, and the forward slash (/) to divide. Then, press ENTER, and Excel instantly calculates and displays the result of the formula.

For example,



The screenshot shows the Microsoft Excel interface. The ribbon is set to 'Formulas'. The formula bar contains the text '=12.99-16.99'. A callout box points to the formula bar with the text 'The formula appears in the Formula Bar.' Below the formula bar, a spreadsheet is visible with the following data:

	January	February
Entertainment		
Cable TV	52.98	63.25
Movies	7.98	11.97
CDs	16	29.98
Total		

A callout box points to the cell containing '29.98' with the text 'Excel displays the formula result in the cell.'

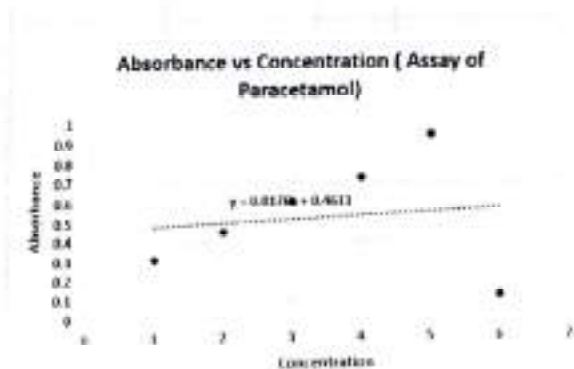
List of Formulas and shortcut keys:



Calculator key	Excel method	Description, example	Result
<b>+</b> (Plus key)	+ (plus)	Use in a formula to add numbers. Example: =4+6+2	12
<b>-</b> (Minus key)	- (minus)	Use in a formula to subtract numbers or to signify a negative number. Example: =18-12 Example: =24*-5 (24 times negative 5)	6 -120
<b>x</b> (Multiply key)	* (asterisk; also called "star")	Use in a formula to multiply numbers. Example: =8*3	24
<b>/</b> (Divide key)	/ (forward slash)	Use in a formula to divide one number by another. Example: =45/5	9
<b>%</b> (Percent key)	% (percent)	Use in a formula with * to multiply by a percent. Example: =15%*20	3

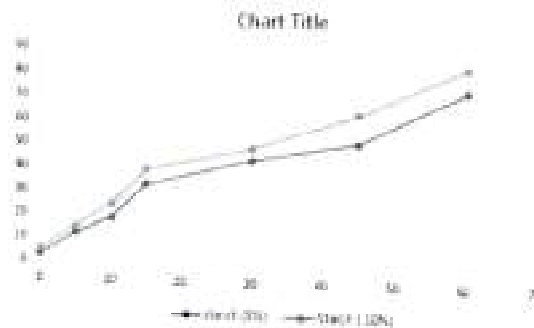
How to plot a point graph?

Concentration	Absorbance
2	0.31
4	0.446
6	0.605
8	0.722
10	0.943
Sample	0.112



How to plot a line graph and compare two parameters?

Time	starch (15%)	Starch (10%)
0	0	0
5	12	15
10	19	20
15	34	40
30	45	50
45	51	55
60	75	85



How to plot a geographical map chart?

India	115
England	30
Canada	200



**Outcome of the session:** This Excel and formulae-related workshop ended up becoming participatory. Excel offers a range of alternatives for displaying the statistical data in a systematic and orderly manner in the current scenario when everything is captured and saved electronically. The lesson really helped in understanding Excel's features and the various methods to present information.

*Anand Chintakarindhi*  
15-07-22

Dr. Anand Chintakarindhi  
Activity coordinator



**Vivekanand Education Society's College of Pharmacy**  
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# Measures to enhance the skills of fast learners: Training for Drug Design Software

<b>EXPERIMENT NO :</b> 2	<b>MOLECULAR DOCKING</b>	<b>DATE:</b> 23/72022	<b>ROLL NO:</b> 70922
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**AIM:** Performing docking of small molecules in Human Serum albumin

**REQUIREMENTS:**

PDB file of the HSA

1. Software's
  1. Auto dock
  2. MGL tool
2. Molecules
  1. Albumin protein
  2. Innate ligand
  3. Drug molecules

**Protein binding:**

Plasma protein binding (PPB) of drugs is expressed as percentage of total drug that is bound to plasma protein such as albumin. Each protein has its own properties, their concentration in plasma may vary depending on gender, age and health state and they can contribute simultaneously to the binding of the drug. PPB is a reversible association of a drug with the proteins of the plasma due to hydrophobic and electrostatic interactions eg. Van der Waals and hydrogen bonding. The unbound drugs can passively diffuse through the barriers into the organs where they are metabolized, biliary excretion or glomerular filtration in the kidney, and to the sites where they interact with therapeutic targets to produce therapeutic effects. However in vitro and in vivo ADME are relatively expensive in terms of resources, reagents and detection techniques, therefore there is a need for reliable in silico technique to predict PPB.

**Docking:**

Docking is a computational procedure of searching for an appropriate ligand that fits both energetically and geometrically the protein's binding site. In other words, it is a study of how two or more molecules e.g., ligand and protein, fit together.

**PROCEDURE:**

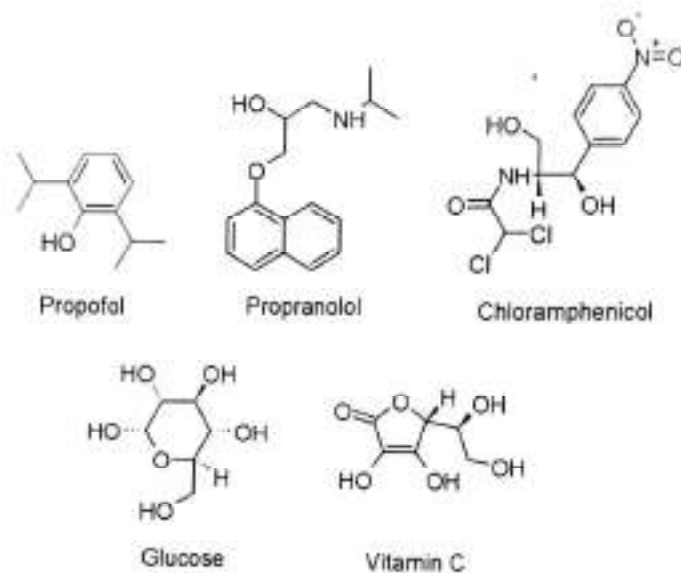
**1. Preparation of protein**

Three-dimensional (3D) structure of Serum albumin was downloaded from protein data bank having a PDB code 1E7A. The structure was loaded in maestro for its preparation for docking. Hydrogen was added, charges were assigned. Water molecules farther than 5Å from the ligand were deleted.

**2. Preparation of ligands**

The innate ligand was removed from the pocket, bond orders were corrected, hydrogen and charges were added using maestro.

Four molecules as shown below were built and subjected to the same treatment as stated earlier. The structure of the molecules is given in the Table. 1

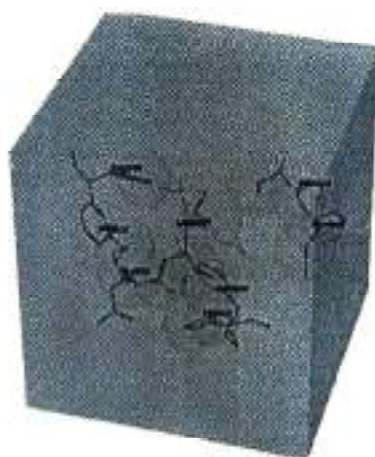


**Figure 1 : Structures of molecules docked**

(Note : molecule tilted as Propofol is an innate ligand in the PDB file.)

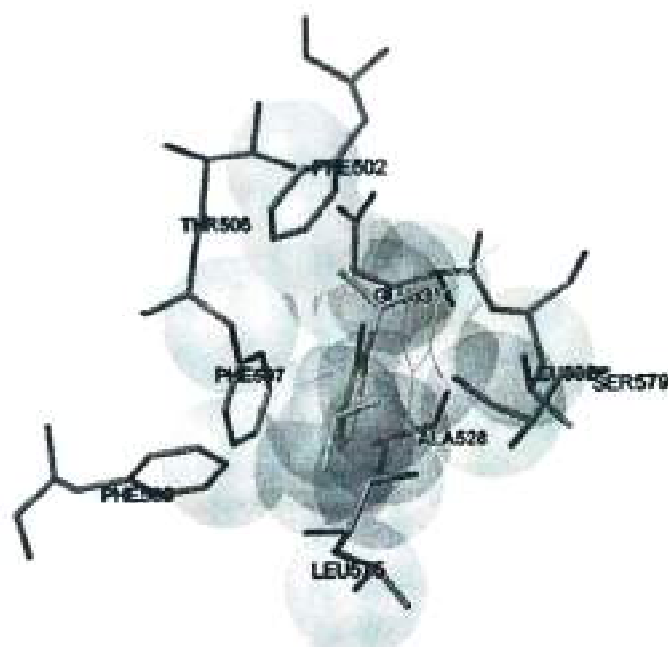
### 3. Docking preparation of model and validation

The docking was performed using Auto dock v 4.2 using Auto dock Tools. The active site was defined at the centroid of bound propofol at coordinates -3.264, 25.238, -20.485 using a grid of size 50 x 50 x 50 Å in x, y and z directions. The grid was prepared using Auto grid script in the module and was seen as in Figure 2.



**Figure 2 : Grid for docking**

With this set up the innate ligand was docked in an active pocket found to bind in the same orientation with minimum deviation from original co-crystallized ligand, indicating the acceptability of the docking model.

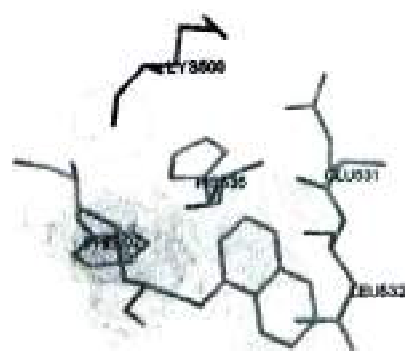


**Figure 3 :** Validation of docking model: Molecule docked in exact conformation like the co-crystallized structure (Molecule in depicted in orange line is co-crystallized ligand vs one colored with atom types)

#### 4. Docking of proposed ligands

The Molecules were docked using Auto dock script in the Auto dock 4.2 module, using genetic algorithms for pose and conformation prediction. The docking generated 50 poses each and clustered the poses, which were analyzed for interaction and highest scores were recorded and are shown in Table 1 below. Actually, there are two possible binding pockets for drugs in Human serum albumin, here only one pocket is studied.

As shown below, The molecules were docked well in the active pocket. All of them aligned well to the innate ligand indicating that they would have the same mechanism of action and same binding site.



**RESULTS:** The results obtained were not satisfactory

**INFERENCES AND CONCLUSION:**

1. The results from validation are not up to the mark, since the molecule deviated a lot from its actual location in the active pocket, though it can fit itself in the pocket.
2. All the four molecules got docked pretty well in the pocket, though the results will only be qualitative, a direct relationship was observed between the hydrophobicity of molecules with docking score. Polar molecules are bound very weakly.
3. The interaction analysis revealed the absence of any polar interaction between the molecules and HAS

Activity coordinator: Dr. Mushtaque Shaitel





**Vivekanand Education Society's College of Pharmacy**  
Hashu Advani Complex, Near Collector's Colony, Chembur (E) Mumbai 400074

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# Measures to enhance the skills of fast learners: Vidnyan Manch Session



# TECHNICAL SEMINAR AND WORKSHOP ON



V.E.S.  
Since 1962

## "A Glance into Pharmaceutical Formulation development"



**Speaker :**

**Ms. Utkarsha Sarang**  
Senior officer -Formulation  
Development

**Date and time : 23rd July, Saturday**  
11:15 am

**Venue : Classroom 403**



Dr. (Mrs) Sushila S. Shidhaye  
Vivekanand Education Society's  
College of Pharmacy  
HADAPSAR, PUNE-411007  
Ph: 020-27090744

**Organized by : IERC in collaboration  
with Alumni association-VESCOP**

# VES COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074

Activity Report A.Y 2022-23

IERC and Alumni Committee

Details of activity:

<b>Name of the Activity</b>	Technical Seminar and workshop on 'A glance into pharmaceutical formulation development	<b>IQAC ACTIVITY No:</b>	<b>IQAC/2022-23/ IERC/01</b>
<b>Day, Date</b>	23 <sup>rd</sup> July 2022	<b>Department/ Committee/Faculty</b>	IERC and Alumni
<b>Venue</b>	Classroom 403	<b>Time</b>	11.30am -4 pm
<b>Nature of activity</b>	interaction session	<b>Total no. of participants</b>	30

Activity Information:

<b>Objectives</b>	To update the students on the concepts and method of formulation development process in the Pharma industry so that they have life-long learning and also learn the documentation, communication and computing skills
<b>Methodology</b>	Interaction with industry expert
<b>Outcomes</b>	Practical knowledge about the process, scope, considerations for literature survey, strategy adopted by QbD approach and other records to be maintained for formulation development in Pharma industry

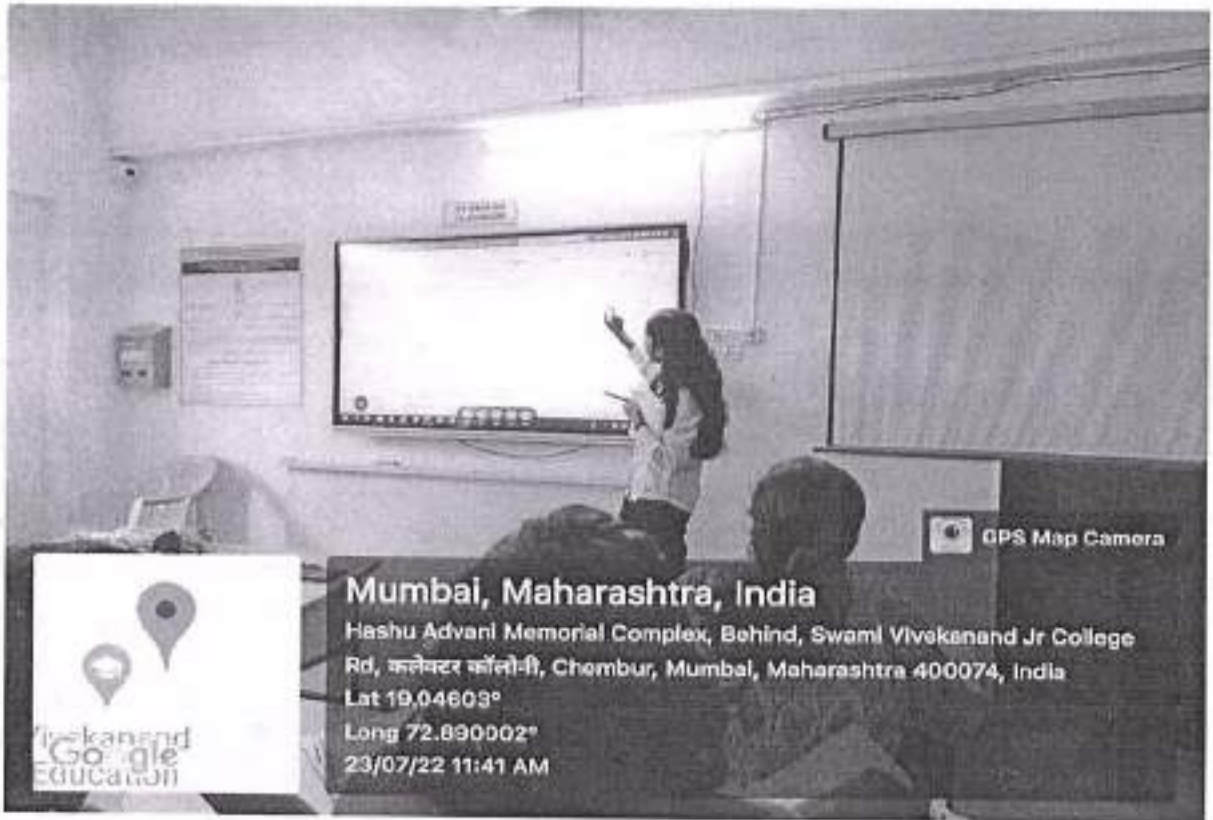
PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

<input type="checkbox"/>	Notice and communication	<input type="checkbox"/>	Feedback form
<input type="checkbox"/>	Student list of participation	<input type="checkbox"/>	Feedback analysis
<input type="checkbox"/>	Photos	<input type="checkbox"/>	Media news details
<input type="checkbox"/>	Certificate	<input type="checkbox"/>	Any other

<b>Name &amp; Signature of Coordinator</b>	<b>Name &amp; Signature of Head/Committee In charge</b>	<b>Name &amp; Signature of IQAC Coordinator</b>
Dr. Harsha Kathpalia <i>Harsha</i>	Dr. Harsha Kathpalia IERC in-charge <i>Harsha</i>	Dr. Rajashree Hirtekar <i>Rajashree</i>



(Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
Vivekananda Education Society's  
College of Pharmacy  
HAWC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

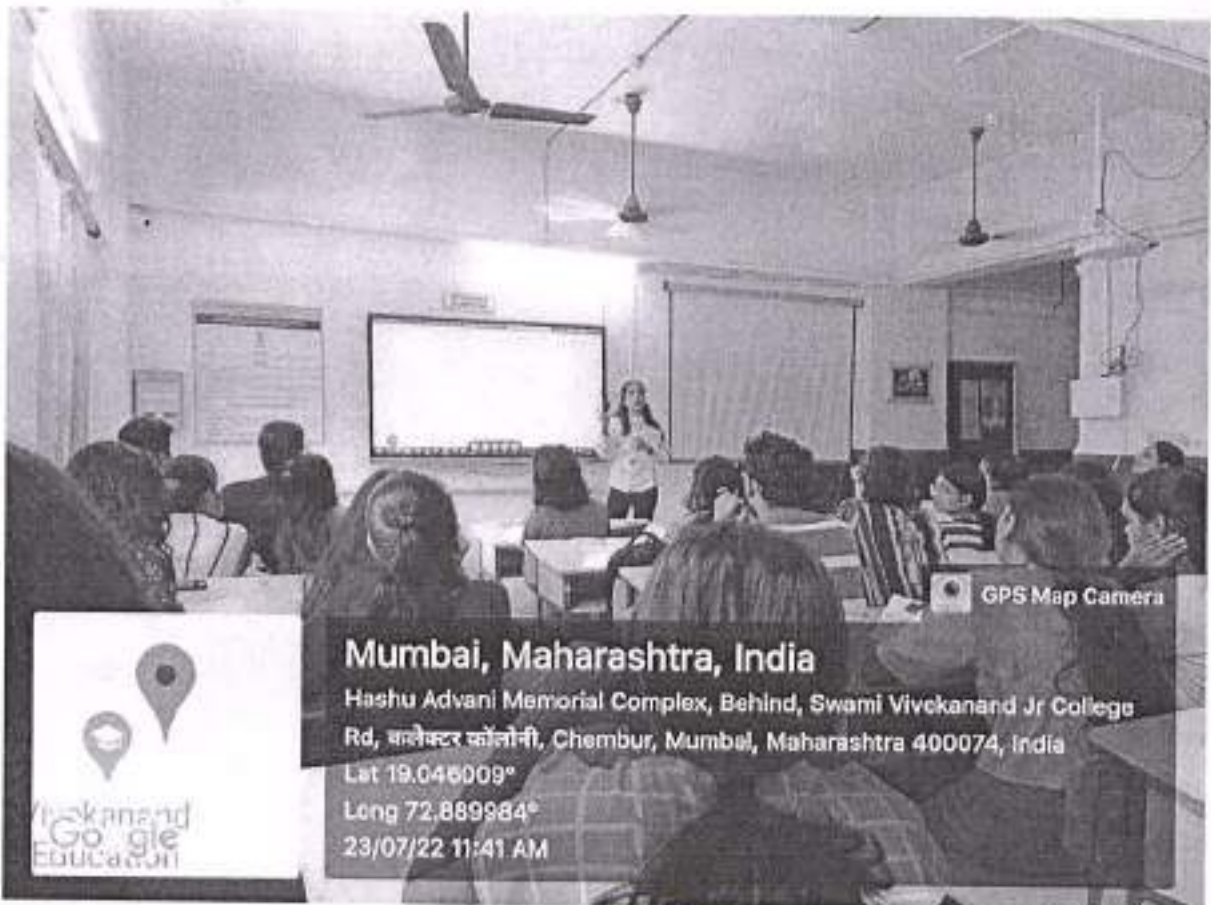


GPS Map Camera



**Mumbai, Maharashtra, India**

Hashu Advani Memorial Complex, Behind, Swami Vivekanand Jr College Rd, कलेक्टर कॉलोनी, Chembur, Mumbai, Maharashtra 400074, India  
Lat 19.04603°  
Long 72.890002°  
23/07/22 11:41 AM



GPS Map Camera



**Mumbai, Maharashtra, India**

Hashu Advani Memorial Complex, Behind, Swami Vivekanand Jr College Rd, कलेक्टर कॉलोनी, Chembur, Mumbai, Maharashtra 400074, India  
Lat 19.046009°  
Long 72.889984°  
23/07/22 11:41 AM



*MS*  
**Dr. (Mrs.) Sushree S. Shidhaye**  
PRINCIPAL  
Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Colaba Colony,  
Chembur, Mumbai, 400 074

# VES COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074

## Feedback responses: A GLANCE AT FORMULATION DEVELOPMENT - WORKSHOP BY UTKARSHA SARANG

Timestamp	Email Address	How relevant and structured was the delivery of content?	How effectively did the Speaker create a conducive environment for learning?	The Speaker was well-prepared for the session with adequate knowledge, information & resources	Any Specific topic you would like to be covered	Any other suggestion(s)?
7/26/2022 12:24:33	rajpreet.kaur@ves.ac.in	5	5	5		
7/28/2022 12:25:14	gupta.sristi@ves.ac.in	5	5	5		
7/26/2022 12:30:11	phatak.chinmay@ves.ac.in	5	5	5	Session on ANDA and product development report	No
7/26/2022 12:30:37	dighe.anjali@ves.ac.in	5	5	5		It was very informative session and i learned a lot new things how to search any drug and there information. And various websites. Thank you so much for this session.
7/26/2022 12:40:56	rane.saloni@ves.ac.in	4	4	5	Some information on cosmeceutical industry would be helpful	
7/26/2022 12:48:08	shetkar.chaitrali@ves.ac.in	5	5	5		
7/26/2022 13:01:39	gurav.mansi@ves.ac.in	5	5	5		
7/26/2022 14:51:08	pillai.sneha@ves.ac.in	5	4	3	NA	NA
7/26/2022 14:51:59	date.shrutika@ves.ac.in	5	5	5		
7/26/2022 14:56:11	vaishali.jadhav@ves.ac.in	5	4	5	Formulation development with example of anyone	NA



Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
Ves College of Pharmacy  
Hashu Advani Memorial Complex  
Behind Collector Colony,  
Chembur, Mumbai - 400 074

# VES COLLEGE OF PHARMACY

Hastu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074

## IMPACT ANALYSIS FOR IERC and C2C ACTIVITY (Vidyanmanch)

LY B. Pharm and SY M Pharm Sem. IV

Academic Year: 2022-23

Date: 23<sup>rd</sup> July 2022

**A. Title of the activity:** Technical Seminar and workshop on 'A glance into pharmaceutical formulation development by Ms UTKARSHA SARANG (Indocin remedies)

### B. Objectives:

1. Widen the knowledge of students by addressing the gaps in the Industrial pharmacy syllabus
2. Improving the knowledge by giving step by step guide and know-how of pharmaceutical formulation development by an industry expert in this field
3. Learn about the application of various websites for literature survey and various documents in pharmaceutical formulation development

### C. Activity Outcomes

Activity Outcome	Upon completion of this activity learners would:	Mapped PO	Level of Mapping
AO1	Aided in improving basic knowledge associated with the Pharmaceutical formulation development	1	3
AO2	Develop overall understanding of Pharmaceutical formulation development	8	3
AO3	Strengthen self confidence in formulation development	6	3
AO4	Develop decision making ability and develop specialised skills in formulation development	3, 5	3
AO5	Practicing ethics while taking decisions in formulation development	7	3

D. Rate the Outcome: This activity helped you to:

Q. No.	Question	AO mapped
1.	Aided in improving basic knowledge associated with the Pharmaceutical formulation development	AO1
2.	Develop overall understanding of Pharmaceutical formulation development	AO2
3.	Strengthened self confidence in application of Pharmaceutical formulation	AO3



Dr. (Mrs.) Geetika S. Shidhaye  
Principal  
VES College of Pharmacy  
Chembur, Mumbai - 400 074


## VES COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074

### IMPACT ANALYSIS FOR IERC and C2C ACTIVITY (Vidyanmanch)

17	Jankari Pakale	3	3	3	3	3	J. Pakale
18	Rajpreet Kaur Buttar	3	3	3	3	3	Rajpreet
19	Snaha Pillai	3	3	3	3	3	Snaha
20	Sanjana Yadav	3	3	3	3	3	S. Yadav
21	Maya Mhatre	3	3	3	3	3	Maya M.
22	Srishti Gupta	3	3	3	3	3	Srishti
23	Gourab Pandey	3	3	3	3	3	G. Pandey
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 Dr. (Mrs.) Supriya S. Shidhaye  
 PRINCIPAL  
 Vekanta's Education Society's  
 College of Pharmacy  
 HAVC, Behind Collector Colony,  
 Chembur, Mumbai - 400 074



**Vivekanand Education Society's College of Pharmacy**  
Hashu Advani Complex, Near Collector's Colony, Chembur (E) Mumbai 400074

---

# Measures to enhance the skills of fast learners: Case Study

## Drug Interaction Case Study

Only two questions (4) & (5) made are optional. In every other question you carry marks (10 Marks each)

Required

1. Final -

---

2. Exam No. and name of Student 1\*

---

3. Exam No. and name of Student 2\*

---

4. Exam No. and name of Student 3\*

---

5. Academic Year, Class, Subject and Topic\*

Make only one copy\*

1. 1st Year B. Pharm, 2022, Clinical Pharmacy, Drug Interactions

6. Patient with the names of the drugs involved in case study\*

---

---

12. Please write the instructions to be given to the patient to avoid or minimize the interaction. If you wish, you may prepare Patient Instruction Leaflet and upload in the relevant question

---

---

13. Please write the instructions to be given to the Physician regarding this combination. If you wish, you may prepare instruction sheet and upload in the next question

---

---

14. Upload the Physician Instruction Sheet here (Optional) Label the file with drug combination name

File Uploaded

15. Upload the Patient Instruction Leaflet here (Optional) You may use pictures, simple language, pictorial form. Label the file with drug combination name

File Uploaded

7. Give the type of Drug Interaction (Such as also, for substrate + Pharmacokinetic Absorption Type)

---

8. Explain the MOA of Drug Interaction\*

---

---

9. Name the Object drug.\*

---

10. Name the Receptor drug.\*

---

11. What is the outcome of the drug interaction?\*

---

---

---



# Impact Analysis - Feedback form

66 responses

Publish analytics

## Name of the Student

66 responses

Vaishnavi konde

Dhanashree Narayan Koll

Divya karepaka

Ankita Nitin Mandlik

Sakshi Ketaria

Manasi Rajesh Yelkar

Yukta Sanjay Patil

Pooja Manohar Kokate

Samal Vidya Ramesh

## Exam Number

66 responses

89422

86522

81322

88922

83522

84322

82722

81422

88022

# Impact Analysis - Feedback form

57 responses

Publish analytics

## Name of the Student

57 responses

- SRUSHTI SHETYE
- Adli Ombale
- Mekhalo Nalk
- Kastur Pawar
- Cherisha Rane
- Sakshi Kelera
- Nisha Mahesh Pat
- Dhya karepaka
- Namita Kaur Dhillon

## Exam Number

57 responses

- 68822
- 82122
- 81922
- 82822
- 83822
- 83522
- 89022
- 81322
- 88622

## Academic Year, Semester & Syllabus Pattern

Copy

57 responses

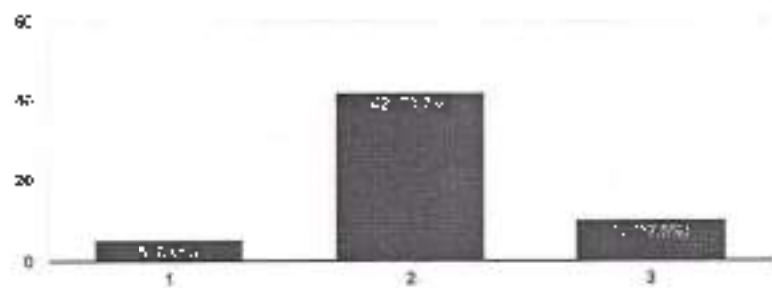


● Final Year II, Pharm, Semester VII (CBCS)

Rate the difficulty level of the activity

Copy

57 responses



The activity gave me a chance and confidence to apply basic knowledge in actual practice

Copy

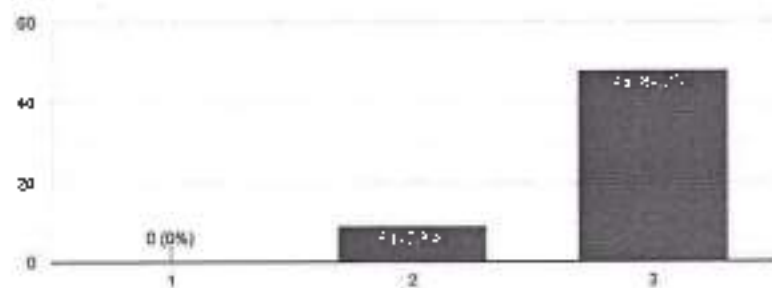
57 responses



The activity helped me to generate interest in course

Copy

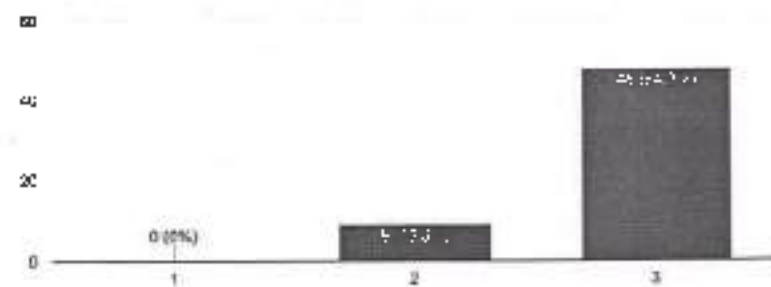
57 responses



The activity enhanced my thinking and application ability

Copy

57 responses



I liked the activity

Copy

57 responses



Any Suggashions to improve the activity

57 responses

-

No

No

No

No suggestions

NO

we got to know about various aspects on ddi

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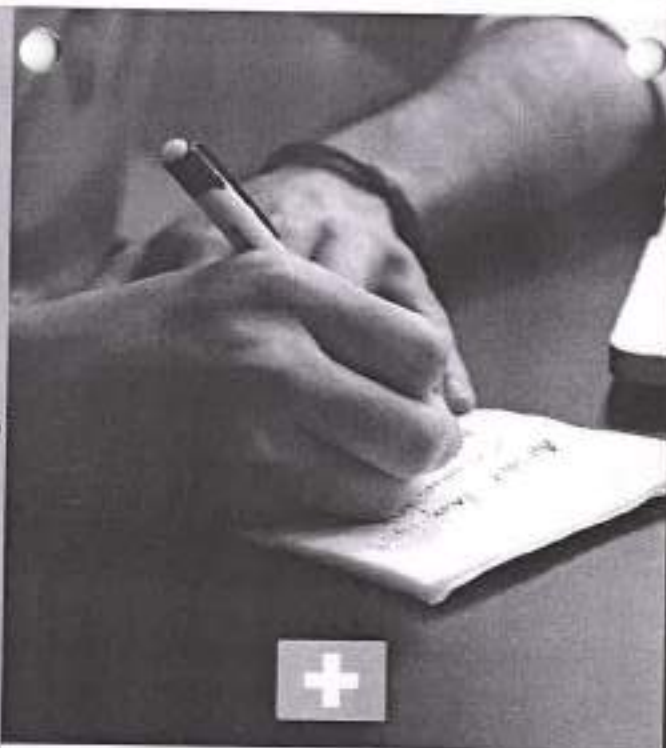
**Ketoconazole:  
systemic/topical  
antifungal.**

**Possible Risks associated:**

Ketoconazole can cause QT prolongation (an irregular heart rhythm that can lead to fainting, loss of consciousness, seizures, or sudden death).

**Drug interactions:**

- Ketoconazole may not be absorbed into the body if co-administered with antacids. So it is advised to take ketoconazole at least 2 hours before taking the antacid.
- Risk of liver damage if a patient consumes alcohol during treatment with ketoconazole.



**ENQUIRE: IF THE PATIENT HAS KIDNEY OR LIVER PROBLEMS, ARE ON A LOW-SODIUM DIET, ARE TAKING THYROID MEDICATION – SUCH AS LEVOXYL OR SYNTHROID (LEVOTHYROXINE) – OR THE BLOOD THINNER COUMADIN OR JANTOVEN (WARFARIN), SINCE ANTACIDS MAY INTERFERE WITH THESE DRUGS.**



## PHYSICIAN'S TEMPLATE

What if you miss a dose?

Take the missed dose as soon as you remember it  
Do not take a double dose to make up for a missed one.

## Drug Interaction Case Study

30 responses

Publish analytics

Exam No. and name of Student 1

30 responses

81322 Divya Karepak

85321 Aishwarya Chavan

82522 - MaBhar Patil

88822\_Jayesh Lakhadani

86322 - Muzammil Khan

86722 Hitesh Lad

85422-Vaishnavi Konde

80722 DIKSHITA DHARMARAJ

87022 Sakshi Patil

Exam No. and name of Student 2

30 responses

81422 Pooja Kokate

85221 Varshika Chenchani

82622 - Shweta Patil

88922\_Annika Mandlik

86222 - Arbaz Khan

86822 Saloni Malindan

89522 Chaitali Jalankhe

80822 SHURHAM GHORPADE

87122 Siddhesh Hansare

Exam No. and name of Student 3

30 responses

81522 Priyanka Kulkarni

85421 Shrutika Chavane

82722 - Yuvika Patil

89022\_Nisarga Patil

86721 - Archit Kadam

86422 Merin Kulkarni

89622 arjana jekharika

80922 RAJVEER GUNFURKA

87222 Gauri Karyat

Academic Year, Class, Subject and Topic

Copy

37 responses



● First Year B. Pharm, 2022,  
Clinical Pharmacy, Drug  
Interactions

Please write the names of the drugs involved in case study

30 responses

Prednisolone and aluminum hydroxide

Levodopa and Carbidopa

Erythromycin and Digoxin

Alcohol and Aspirin

Probenecid and Penicillin

Amphetamine and Antacid

None are given to asthmatic patient

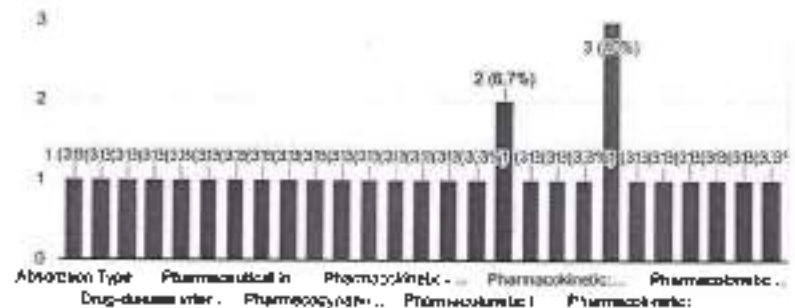
Thiopentone (Sodium thiopental) and Succinylcholine

Alcoids and Lithium bromide

Give the type of Drug Interaction (Subtype also, for example Pharmacokinetic Absorption Type)

Copy

30 responses



Explain the MOA of Drug Interaction

30 responses

Prednisolone and aluminum hydroxide forms insoluble complexes and decreases the absorption and bioavailability of prednisolone

Adding carbidopa along with levodopa as a combination prevents levodopa from being converted (metabolized) into dopamine in the bloodstream by inhibition of peripheral dopa decarboxylase enzyme. This is the desired action because dopamine itself cannot cross the Blood Brain Barrier and restore the degenerated neuronal activity of neurons

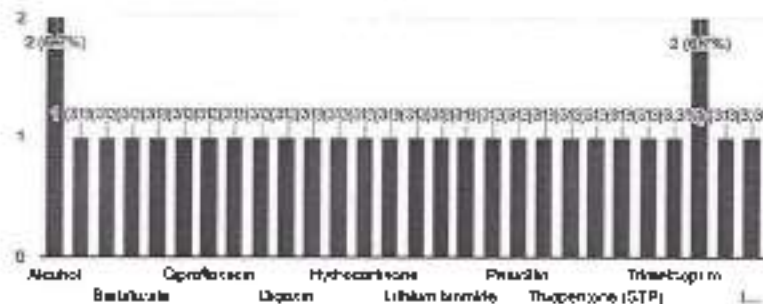
(i) Erythromycin increases digoxin absorption by inactivating gastrointestinal bacteria thought to metabolize digoxin in the gut  
(ii) Erythromycin increases the level of digoxin by affecting its elimination from the body via a P-glycoprotein transporter which causes elimination of drugs by transporting the molecules into the bile and urine.

Aspirin increases gastric emptying, leading to faster alcohol absorption in the small intestine; may also inhibit gastric Alcohol dehydrogenase | ADH; ADH is a zinc-containing enzyme, consisting of two subunits of 40 kDa each. It functions to oxidize endogenous alcohol produced by microorganisms in the gut, to oxidize exogenous ethanol and other alcohols consumed in the diet. If alcohol is not oxidised, it remains in the liver for a longer

### Name the Object drug



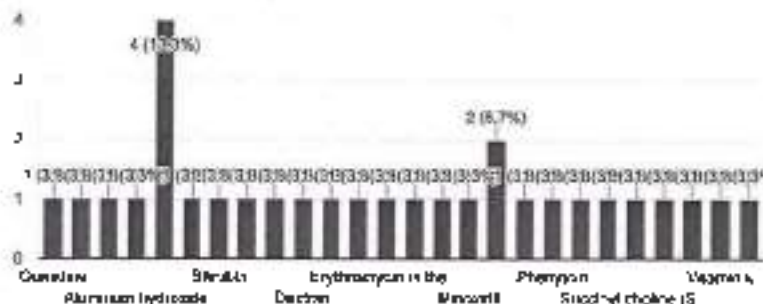
30 responses



### Name the Precipitant drug



30 responses



### What is the outcome of the drug interaction?

30 responses

Decrease absorption and bioavailability of pramipexole may increase the risk of dehydration and hypokalemia, or low blood potassium.

Adding carbidopa prevents levodopa from being converted into dopamine in the bloodstream. This allows more of the drug to get to the brain. Carbidopa lowers the levodopa dose requirement. Metabolites of levodopa are distributed in the periphery, thereby its CNS availability is increased. This stimulates nigrostriatal neurons and relieves parkinsonian symptoms.

Furazolidone increases the level and effect of digoxin.

Aspirin may inhibit gastric ADH which causes decrease in alcohol metabolism, thereby maintaining the level of alcohol in the liver. This may cause liver toxicity and interaction with other drugs. Therefore, it is not recommended to take aspirin and alcohol simultaneously.

Prolongation of antibiotic action due to inhibition of tubular secretion.

Antacid increased passive reabsorption of amphetamine therefore increased risk of toxicity.

Please write the instructions to be given to the patient to avoid or minimize the interaction. If you wish, you may prepare Patient Instruction Leaflet and upload in the relevant question.

30 responses

Take prednisolone before 1 hour before or 2 hours after aluminum hydroxide

- 1) Elderly patients are more likely to have kidney problems, which may require caution in patients receiving this medicine.
- 2) There are no adequate studies in women for determining infant risk when using this medication during breastfeeding.
- 3) Since protein may interfere with the body's response to carbidopa and levodopa, high protein diets should be avoided. Intake of normal amounts of protein should be spaced equally throughout the day, or taken as directed by the doctor.
- 4) Taking multivitamin tablets or iron salts (in vitamins) may keep this medicine from working properly.
- 5) Parkinson's disease:
  - Adults— The dose is usually not more than 2000 milligrams of levodopa (one capsule) given over 16 hours.
  - Children— determined by your doctor.
- 6) Do not take this medicine if you have taken a monoamine oxidase (MAO) inhibitor (eg, phenelzine, tranylcypromine, Nardil®, Parnate®) in the past 2 weeks. Using this medicine may cause stomach or bowel problems.
- 7) Swallow the capsule whole and do not crush, chew, break, or open it.



Please write the instructions to be given to the Physician regarding this combination. If you wish, you may prepare instruction sheet and upload in the next question.

30 responses

Not preferred for ulcer patients and patients having low potassium level as it increases hypokalaemia effects.

The physician must investigate the following and avoid the dosing in the given conditions:

- 1) Investigate regarding certain eye problems - glaucoma
- 2) Check medical history- bleeding disorders, asthma, emphysema, arrhythmias, heart attack, angina.
- 3) Investigate about kidney disease, liver disease, mental mood disorders (e.g., depression, schizophrenia), peptic ulcer, seizure. This drug may make patient feel dizzy or cause blurred vision.

#### INSTRUCTIONS-

- 1) The combination may cause a false-positive reaction for urinary ketone bodies when a tape test is used for determination of ketonuria- Caution should be exercised when interpreting the plasma and urine levels of catecholamines and their metabolites in patients on levodopa or levodopa-carbidopa therapy.
- 2) The appearance of involuntary movements should be regarded as a sign of levodopa toxicity and as an indication of overdosage, requiring dose reduction. Treatment should,

Upload the Physician Instruction Sheet here (Optional). Label the file with drug combination name

1 response

Upload the Patient Instruction Leaflet here (Optional) You may use pictures, simple language, colorful font, Label the file with drug combination name

3 responses

This content not created/edited/understood by Google+ [Bhav Chavhan](#) - [Friend of Science](#) - [Drugs Policy](#).

Google Forms



# Measures taken to support the slow learners



**Vivekanand Education Society's College of Pharmacy**  
Hashu Advani Complex, Near Collector's Colony, Chembur (E) Mumbai 400074

---

# Measures taken to support the slow learners: Sharing of Question bank



Anand Chintakrindi <anand.chintakrindi@ves.ac.in>

---

## POC question bank

1 message

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**Anand Chintakrindi** <anand.chintakrindi@ves.ac.in>  
To: fybpharm2023@ves.ac.in

23 June 2023 at 19:37

Dear Students,  
Please find the attached previous year's question bank

--

Regards

**Dr. Anand S. Chintakrindi**

Assistant Professor

Dept. of Pharmaceutical Chemistry

VES College of Pharmacy

Mobile: +91 9619246933



- ❑ Glorious decade of academic excellence
- ❑ AICTE-CII survey 2019 platinum ranking in industry linked Pharmacy Institute (Established Institutes)
- ❑ NIRF-2020 India ranking 63<sup>rd</sup> under Pharmacy category
- ❑ B Pharm program accredited by NBA 2019-21
- ❑ Registered as VES-Scientific and Industrial Research Organization (VES-SIRO) at DSIR
- ❑ Signatory of PRME, a United Nations initiative for sustainability

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### 2 attachments

 **POC I Descriptive Question Bank Final.pdf**  
244K

 **POC I MCQ Question Bank Final.pdf**  
208K



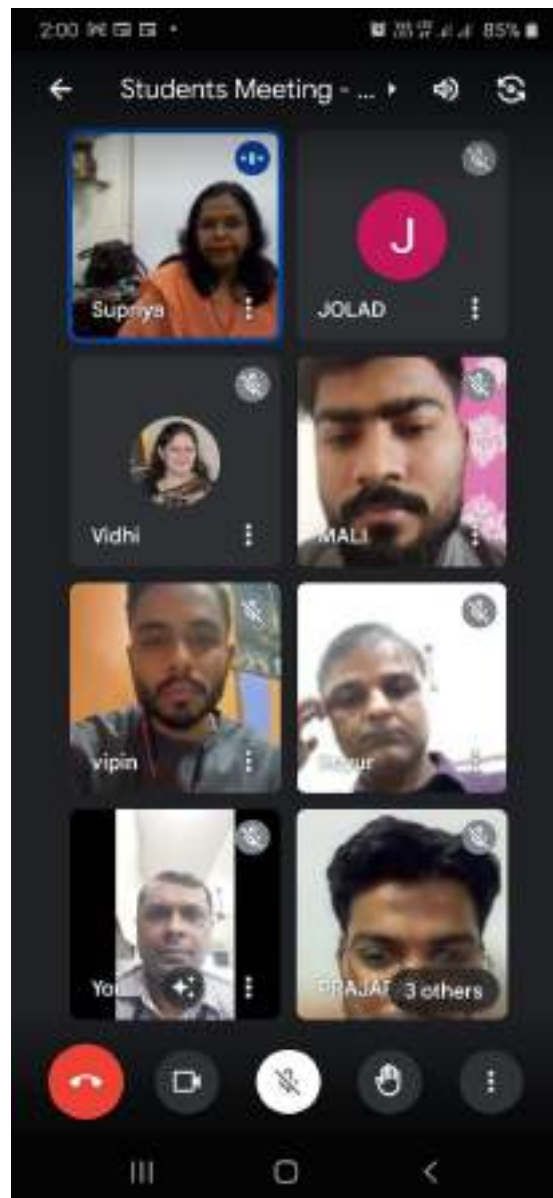
**Vivekanand Education Society's College of Pharmacy**  
Hashu Advani Complex, Near Collector's Colony, Chembur (E) Mumbai 400074

---

## Measures taken to support the slow learners: Counselling by Principal madam for slow learners



**Counselling by Principal madam for slow learners on 18/04/2023 from 1pm to 3pm**





**Vivekanand Education Society's College of Pharmacy**  
Hashu Advani Complex, Near Collector's Colony, Chembur (E) Mumbai 400074

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**Measures taken to support the  
slow learners: Exam Orientation by  
faculty member to students having KT in  
exam**



## Exam Orientation by faculty member to students having KT in exam

Med chem sem V KT exam orientation

Sonali Munj [sonalimunj@ves.ac.in](#)  
to: tytpchem2021, Waibave, Anand

Mon, Oct 18, 2021, 12:54 PM

Dear concerned students  
I will be taking orientation for above mentioned subject at 1 pm as communicated earlier.  
Join following link  
To join the video meeting, click this link: <http://meet.google.com/hoz-seng-zvt>  
Otherwise, to join by phone, dial +1 925-428-8689 and enter this PIN: 577 088 8179  
Thanks  
Mrs. Sonali Mehendale-Munj  
Contact No: 9930607151  
Assistant Professor  
Pharmaceutical Chemistry Department  
VES College of Pharmacy, Chembur

Follow VES COP at:

- 1. AACSB Accredited (2011-2021) - Grade B+ (3 of 1000)
- 2. AICTE-CO 2020 Awarded with Best 1000 Pharmacy as Best Industry linked Institute
- 3. AICTE-CO survey 2020 placed ranking as Industry linked Pharmacy Institute (Established Institute)
- 4. ISO 9001:2015 certified - ISO 27001:2017 certified





Meeting for SEM V KT STUDENTS for SH 2023

Date: 16/10/2023

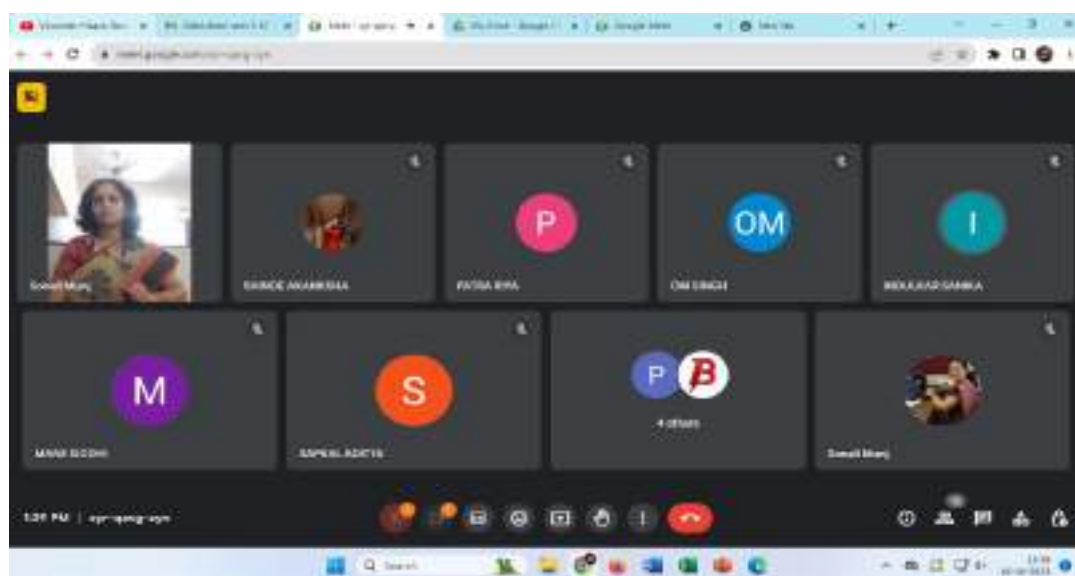
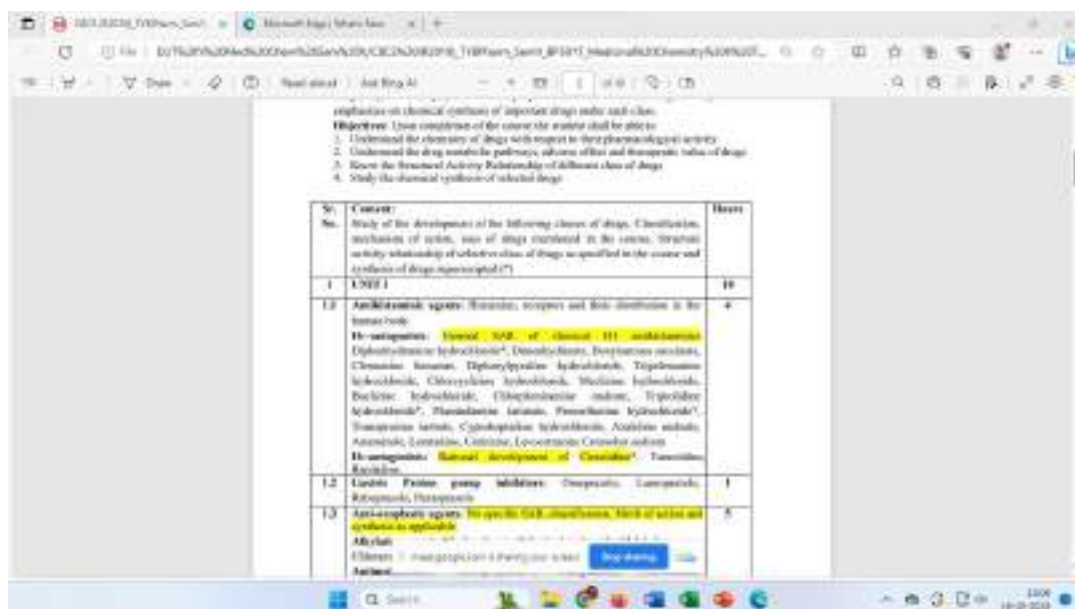
Time: 1:00pm to 1:45 pm

Conducted By: Mrs. Sonali Munj

Mode: G meet online <https://meet.google.com/xyr-qavg-zyn>

Prior intimation given to the students by email

Syllabus was shared with them and each and every topic was taken for discussion. All notes asked by the students are shared again. Students have been informed to solve this year 23-24 sessional papers. Solve previous university papers for min 3 years. Important questions and type of questions that are probable and frequently asked in examination are discussed. Students have been informed important points they need to prepare thoroughly.

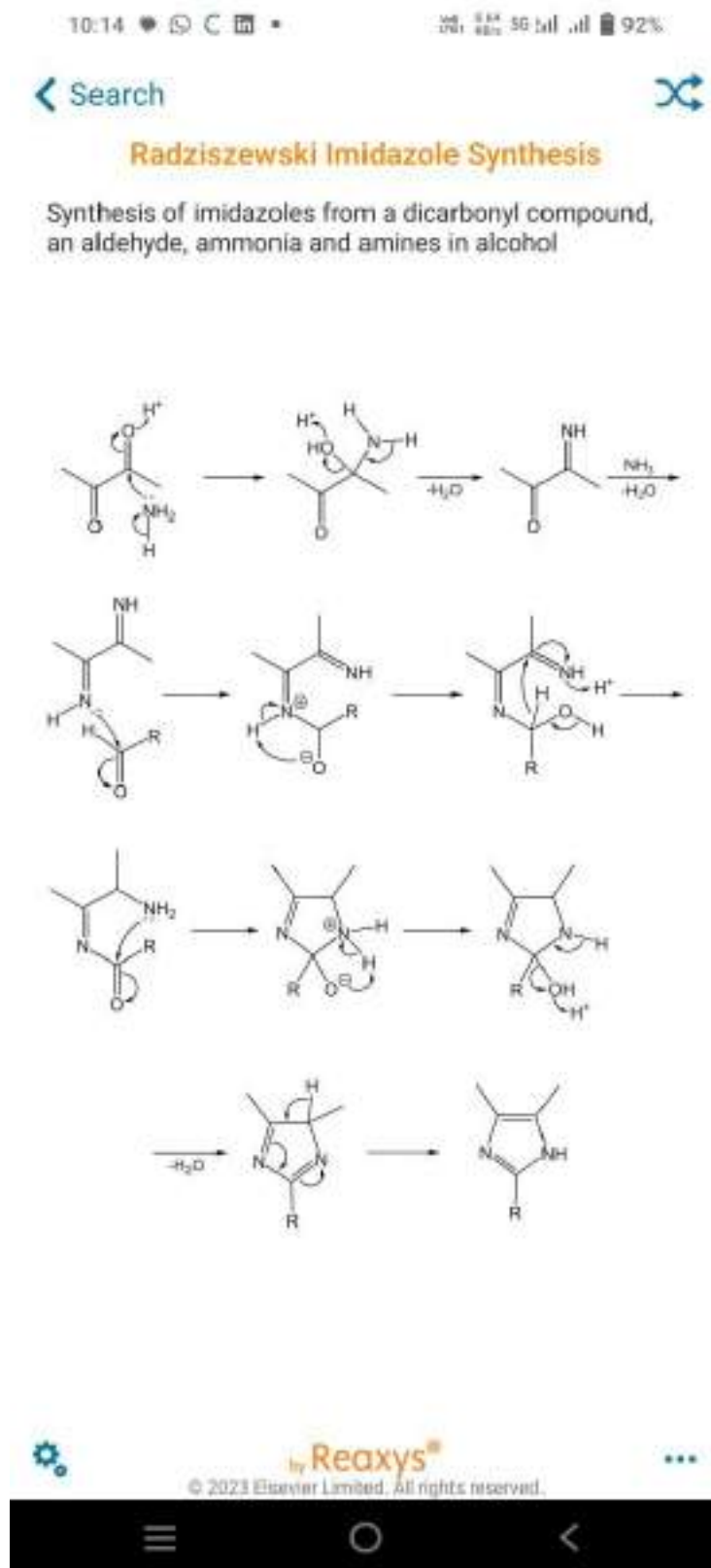




## Measures taken to support the slow learners: Use of Reaction flash app



## Use of Reaction flash app for better understanding of reaction mechanisms





# Measures taken to support the slow learners: Q & A based assignment

16-01-2023.

Page = 11/11 / PM

1. What are the characteristics of an ideal antacid?
2. Which are the combination of antacids being currently used in clinical practice? What advantages do they offer over the individual agents?
3. What are antacids? Explain with at least three official compounds as examples.
4. Classify the inorganic compounds acting as gastrointestinal agents giving examples.
5. Describe the preparation and uses of aluminium hydroxide as an antacid.
6. Describe the mechanism of action of Magnesium containing antacids.
7. Which combination of antacids are commercially available? Why is simethicone added in antacid preparations?
8. Some antacid preparations contain both aluminium and magnesium compounds. What is the reason of this combination?
9. Write definitions of:
  - i. Achlorhydria
  - ii. Hypochlorhydria.

- (ii) Alginic acid + Calcium carbonate + Sodium Bicarbonate.
- Here, alginic acid forms a protective foam layer that floats on the top of contents of the stomach.
  - This prevents the stomach acid escaping into the food pipe.
  - This is used in the treatment of heartburn and acidity.
- eg: Raciraft.

The advantages of using combination antacids over individual agents are as follows -

- i. If aluminium hydroxide is used as an individual agent only, then it can cause constipating effect. Hence, combination of  $Al(OH)_3$ ,  $Mg(OH)_2$  are used together to show greater effect like relief from pain, heartburn, acidity.
- ii. The efficacy of the drug is enhanced.
- iii. They provide a constipating and a laxative effect at the same time. eg: Magnesium hydroxide, aluminium hydroxide.

3. Antacids are the drugs which are usually alkaline substances and are used for neutralising the excess acid in the stomach of patients suffering from hyperchlorohydia or hyperacidity.

- eg: 1. Aluminium Hydroxide + Magnesium + Simethicone.  
2. Oxetacaine + Aluminium Hydroxide + Magnesium  
3. Alginic acid + Calcium carbonate + Sodium Bicarbonate.

8

1) Magnesium Hydroxide produces  $MgCl_2$  interacting with stomach, which when absorbed by body provides relief from acid reflux by neutralizing gastric acid

ii) Aluminium Hydroxide neutralizes the acid in the stomach slowly, known to inhibit the action of enzyme pepsin, relieves heartburn

iii) The antacids containing these combination show a laxative as well as constipating effect at the same time. Hence it increases the efficacy of the antacid, providing dual effects to the patients.

• Simethicone is an anti-flatulent agent and helps relieve bloating, belching and gas relief. Therefore it is added in antacid preparations.

(c) Pantoprazole.

i. It acts as a proton pump inhibitor.

ii. It acts on the ATPase enzyme / parietal cells and inhibits the secretion of  $H^+$  ions in the lumen of stomach

iii. It reduces the acid in the stomach and hence acidity is reduced.

(B) Geusil MFS original liquid Sugar Free Mint.

• Product highlights

i. Aluminium hydroxide - neutralises increased stomach acid

ii. Dimethicone - anti-flatulent agent

iii. Magnesium hydroxide - a laxative, increases water in the intestine, reduces stomach acid.

DATE	
PAGE	/ /

(B) i) It is also prepared from a solution of an aluminium salt by precipitation with sodium carbonate.



ii) The aluminium carbonate formed is very unstable and hydrolyses immediately to  $\text{Al}(\text{OH})_3$ .



iii) It is an aqueous white suspension of hydrated Aluminium oxide with varying amounts of basic Aluminium carbonate ( $\text{Al}_2(\text{CO}_3)_3$ ).

iv) The preparation contains not less than 3.5% and not more than 4.4% w/w of  $\text{Al}_2\text{O}_3$ . Mol. wtg = 102.

• Uses of Aluminium Hydroxide :

- i) Aluminium containing antacids are widely used.
- ii) They are non-absorbable and practically no systemic effects.
- iii) The  $\text{Al}(\text{OH})_3$  gel buffers in pH 3-5 region by virtue of their amphoteric character.
- iv) This gel gives astringent aluminium chloride when it reacts with gastric hydrochloric acid. Hence it results in constipation and occasionally nausea and vomiting.
- v) It eventually forms the insoluble aluminium phosphate in the intestine leading to increased fecal phosphate excretion.