



Participatory Teaching Learning Methods

2.3.1	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT-enabled tools including online resources for effective teaching learning process).
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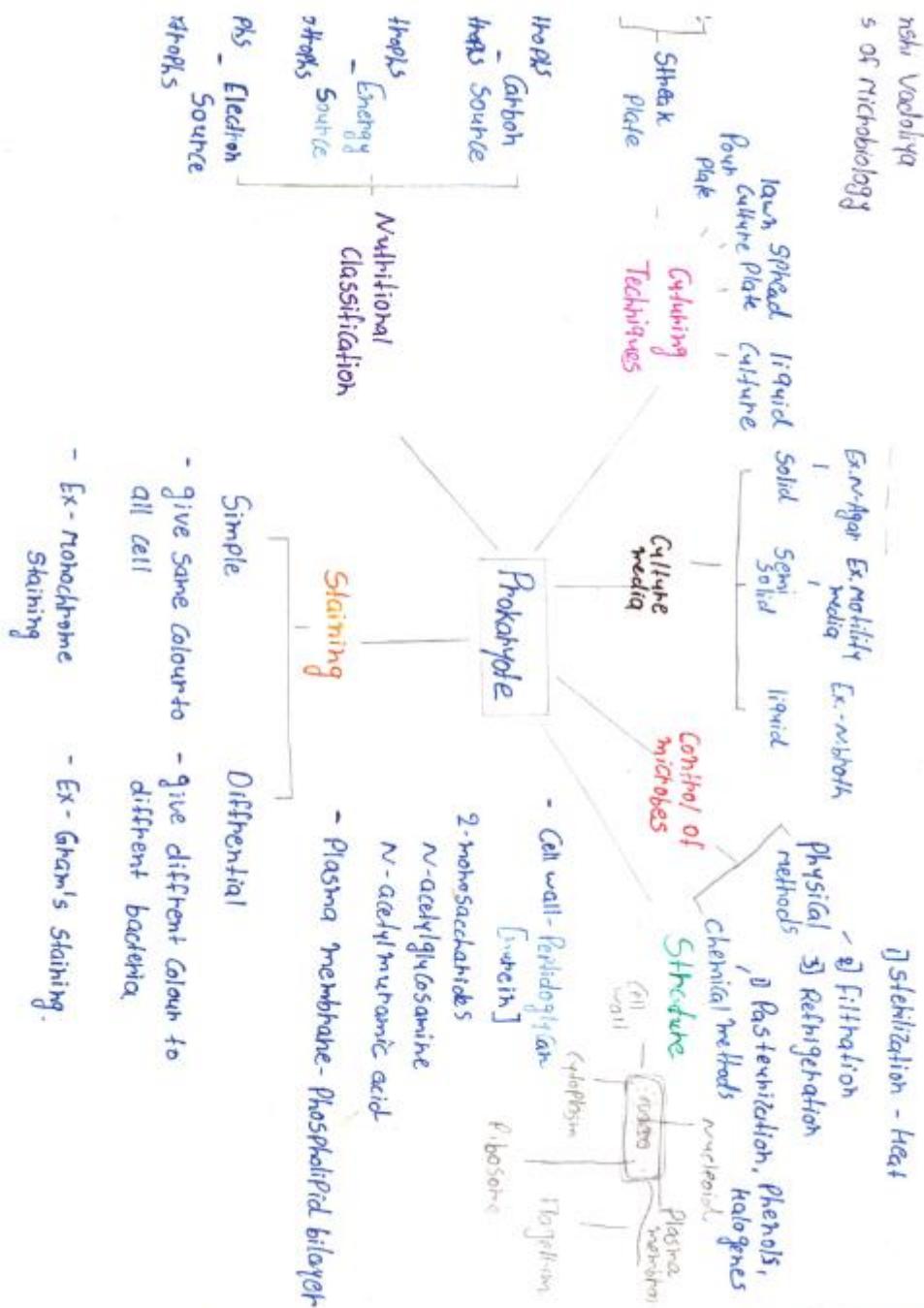
Abstract for Documentary Evidence

Details	Documentary Evidence	Page Number	
Participatory Teaching Learning Methods	Mind Maps Developed by Faculty Members for Enhanced Learning	2	
	Peer Learnings	9	
	Concept Mapping	58	

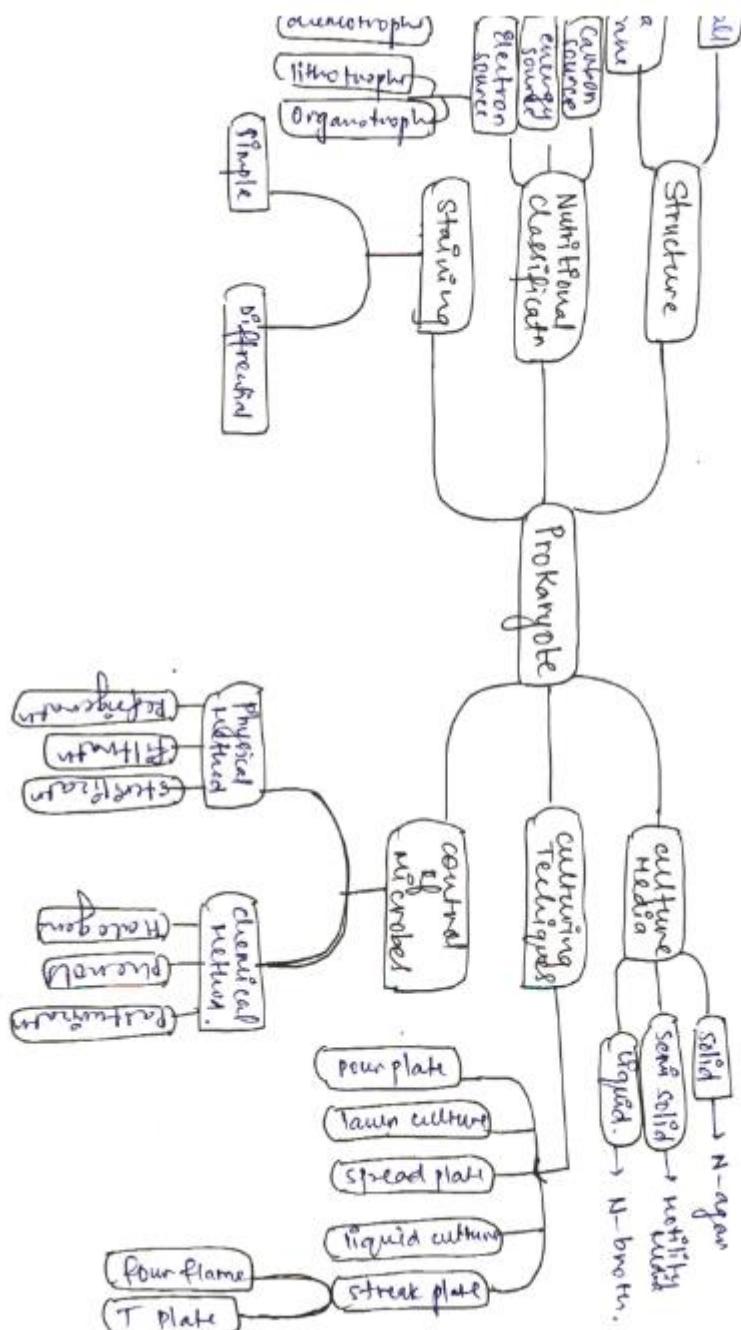


1. Mind Maps Developed by Faculty Members for Enhanced Learning

Faculty members at Atmiya University have created innovative mind maps to simplify complex topics and foster better understanding among students. These visual tools present information in a structured, concise, and interconnected format, aiding in memory retention and critical thinking.







Name - Meena Kudhuvada.



karyon → nut

karyon → nut

1. The Prokaryotic cell structure

1. Structure external to the cell wall

- a. glycocalyx
 - capsule
 - slime layer
- b. Flagella
- c. Fimbriae
 - ↓
 - filament
 - hook
 - basal body

2. The cell wall

→ Peptidoglycan

- made up of two monosaccharide

$\beta\text{N}-\text{acetylglucosamine}$ (NAG)

$\beta\text{N}-\text{acetylmuramic acid}$ (NAM)

- linked together in rows of 10 to 65 molecules.

3. Structures into the cell wall

a. The Plasma memb:

i) Integral

ii) Peripheriol

b. cytoplasm

c. The nuclear area

d. Ribosomes

2. Staining Techniques

→ Types of stains

- i) Acidic
- ii) Basic
- iii) Neutral

→ Types of staining

- i) Negative staining
- ii) Positive staining

→ Techniques

i) Smearing Techniques

- Heat fixation
- Methanol fixation

ii) Simple staining

- *Loeffler's Methylene blue*
- *safranin methylene blue*

iii) Dilute carbol fuchsin

iv) Urom staining

- *Gram positive bacteria*
- *Gram negative bacteria*

v) Acid Fast staining

vi) capsule staining

vii) Endospore staining

3. Nutritional classification of microbes

- C, O, H, N, S + P, K, Ca, Mg Fe

→ Based on c-source

i) Autotrophs

ii) Heterotrophs

→ Energy source

i) light energy

ii) energy derived from organic or inorganic molecules

→ Photoautotrophs

→ Chem. autotrophs

→ Chemoautotrophs

i) lithotrophs

ii) organotrophs

→ Based on energy c-source & electron

i) photolithotrophs

ii) photoorganoheterotrophs

iii) chemolithotrophs

iv) chemorganoheterotrophs

4. Types of culture

→ Based on their i

i) solid medium

ii) liquid medium

iii) semi solid med

iv) based on oxygen

oxygenic media

ii) anaerobic media

→ Culture methods

i) streak culture

ii) lawn culture

iii) slant culture

iv) stab culture

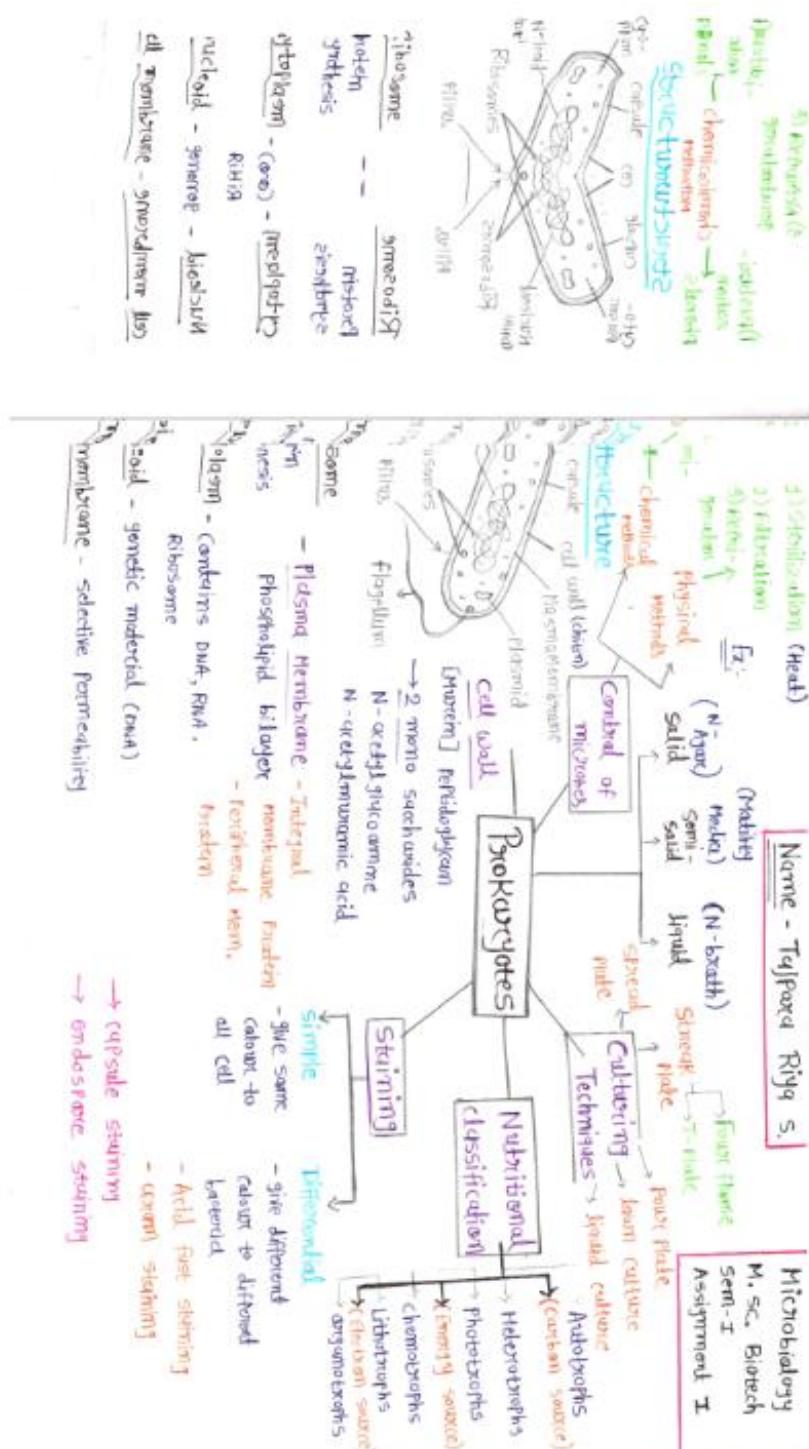
v) pour plate meth

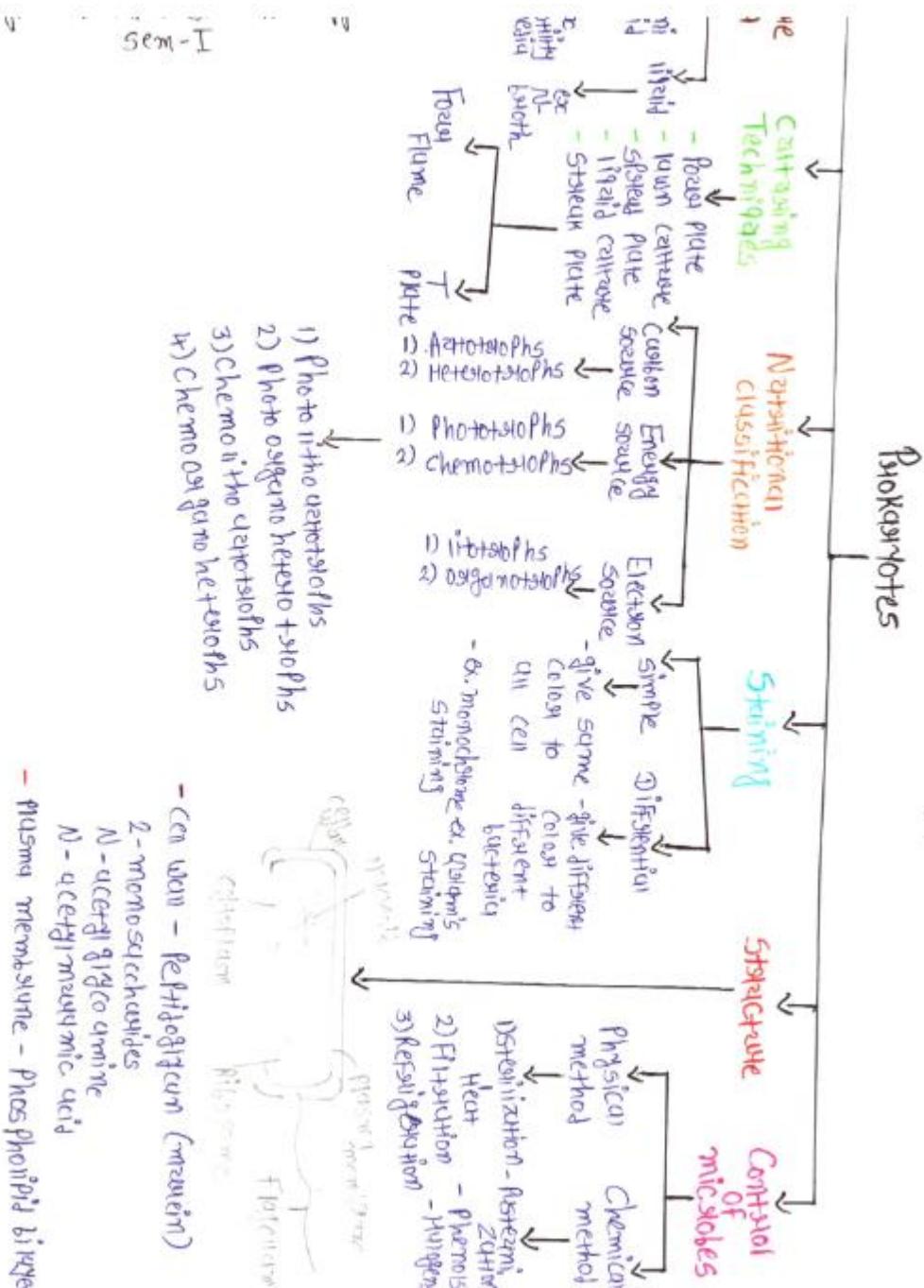
vi) liquid culture

vii) anaerobic cultu



Name:- Shweta Patel.
M.Sc. Biotechnology







2. Peer Learning

At Atmiya University, peer learning fosters collaboration by encouraging students to share knowledge, solve problems together, and support each other. This approach enhances understanding, builds teamwork skills, and creates a dynamic, interactive learning environment.





Peer Learning Activity

“Develop an Android Application”

B.TECH. 7TH SEM. COMPUTER ENGINEERING

Date – 08/09/2021 & 09/09/2021

Organized by

DEPARTMENT OF COMPUTER ENGINEERING

Department of Computer engineering has arranged peer learning in small groups of students for Topic such as Develop an Android Application using android studio.

OBJECTIVES:

- Foster Problem-Solving Skills
- Real World Applications





SUMMARY REPORT

Peer Learning Activity

**“Peer Learning Session On video editing using
Adobe PremierPro”**

B.TECH. 7TH SEM. I.T. ENGINEERING

Date - 22/08/2023

Organized by

DEPARTMENT OF INFORMATION TECHNOLOGY ENGINEERING

Department of I.T. engineering has arranged peer learning in small groups of students for Topic such as fundamental knowledge about consent of Video Editing and animation using Adobe.

OBJECTIVES:

- Develop Analytical Thinking
- Guidance about class and methods





**Peer Learning Activity
“Applications of .NET”**

B.TECH. 6th SEM. COMPUTER ENGINEERING

Date – 18/03/2024 & 19/03/2024

**Organized by
DEPARTMENT OF COMPUTER ENGINEERING**

Department of Computer engineering has arranged peer learning in small groups of students for Topic such as real-life applications of .net.

OBJECTIVES:

- Develop analytical thinking by understanding the adaptability of .NET in diverse domains.
- Foster problem-solving skills by exploring how .NET is used to tackle real-world challenges.





Peer Learning Activity

“ Peer Learning Session on C++ ”

B.TECH. 4thTH SEM. I.T. ENGINEERING

Date - 10/12/2021

Organized by

DEPARTMENT OF INFORMATION TECHNOLOGY ENGINEERING

Department of I.T. engineering has arranged peer learning in small groups of students for Topic such as fundamental knowledge about consent of subject like C++.

OBJECTIVES:

- Develop Analytical Thinking
- Guidance about class and methods





PEER LEARNING SESSION ON VIDEO EDITING USING ADOBE PREMIER PRO

DATE:-

22/08/2023

TIME:-

07:30 AM ONWARDS

SPEAKER:-

DEVANG KANABAR

ORGANIZED BY:-

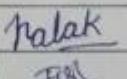
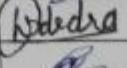
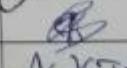
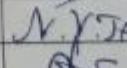
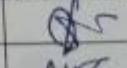
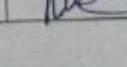
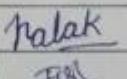
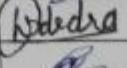
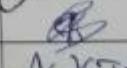
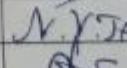
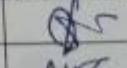
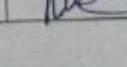
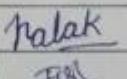
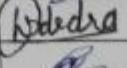
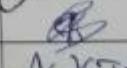
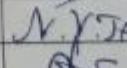
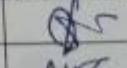
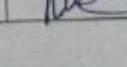
DEPARTMENT OF INFORMATION
TECHNOLOGY.









 <p>ATMIYA UNIVERSITY <small>(Established under the Gujarat Private University Act II, 2018)</small> Togdiham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)</p>	<p>Date: 29/1/2024</p>																																								
<p>Event : Peer learning session</p> <p>Faculty: Faculty of Health Sciences</p> <p>Department: School of Pharmaceutical Sciences</p> <p>Session Taken By: Khandra Rajan Chandaakantbhai</p> <p>Semester: I Signature: </p> <p>Topic Discuss:</p> <ul style="list-style-type: none"> (1) Pharmaceutical Analysis : Acid base Neutralization curves related Problem Solution (2) types of Solvent for Non Aqueous Acid base titration (3) types of Sta reference and indicator electrodes. (4) discuss conductometry titration (5) Explain precipitation titration method like Volhard, Fazans Mohr's method. <p>Audience:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Roll No.</th> <th>Enroll. No.</th> <th>Name of Student</th> <th>Semester</th> <th>Sign</th> </tr> </thead> <tbody> <tr> <td>29</td> <td>230502030</td> <td>Paluk R. Jakusania</td> <td>1st</td> <td></td> </tr> <tr> <td>21</td> <td>230501022</td> <td>Tisha Gianni</td> <td>1st</td> <td></td> </tr> <tr> <td>49</td> <td>230501050</td> <td>Hardik ededra</td> <td>1st</td> <td></td> </tr> <tr> <td>35</td> <td>230501036</td> <td>Dhruvin kanzaria</td> <td>1st</td> <td></td> </tr> <tr> <td>30</td> <td>230501081</td> <td>Jethra Misra</td> <td>1st</td> <td></td> </tr> <tr> <td>36</td> <td>230501033</td> <td>Kunzumiyu mugumuk</td> <td>1st</td> <td></td> </tr> <tr> <td>40</td> <td>230501042</td> <td>Kotudiyu turystye</td> <td>1st</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;"><small>© +91 281 2563445 © +91 281 2563952 © admin@atmiyauni.ac.in © www.atmiyauni.ac.in</small></p>		Roll No.	Enroll. No.	Name of Student	Semester	Sign	29	230502030	Paluk R. Jakusania	1 st		21	230501022	Tisha Gianni	1 st		49	230501050	Hardik ededra	1 st		35	230501036	Dhruvin kanzaria	1 st		30	230501081	Jethra Misra	1 st		36	230501033	Kunzumiyu mugumuk	1 st		40	230501042	Kotudiyu turystye	1 st	
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27	230501028	JUDUV A+41	2 st	DU
25	230501029	Het Kaneriya	1 st	HK
22	230501023	Rushi Gondha	1 st	RG
19	230501022	Darshil Gajerca	1 st .	DBG
20	230501021	Huldip Gajerca	1 st	CG
16	230501017	Dobariya Miraj	1 st	Miraj
11	230501011	Bhozaniya Srenjal	1 st	S
52	230501033	Panchchuri Krish	1 st	Krish
50	230501051	Harsh Palwar	1 st	HP
62	230501063	Dip Ramoliya	1 st	R.D.V.
64	230501065	Harosh Rathod .	1 st	Jharosh
13	230501013	Khavya Chhitaliya	1 st	KKC
5	230501051	Darash Devvaravu	1 st	DD
6	230501046	Bhalami Shyam	1 st	SS
24	230501045	Devuchand Patel H.	1 st	Heteet



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Date: 21/10/23

Event : Peer learning session

Faculty: Faculty of Health Sciences

Department: School of Pharmaceutical Sciences

Session Taken By: Mandavia Keyur Pankashbhai

Semester: II **Signature:**

Topic Discuss:

Reveal Kidney failure, Chf, mills, ball mill, hammer mill, Edge runner mill etc.
Pharmaceutics → Solubility, mixing.
Dosage form – Solid, liquid, monophasic, Biphasic, semi-solid.
HNP → Brain, skeletal system
Eye → Retina, pupil, Cataract
Ear → Ear drum, mechanism of hearing
Digestive System
Solubility → Factors affecting solubility
Parkinson → Symptoms, Pathophysiology, Oidemology
N21mer → Symptoms, pathophysiology → oedema
depression → Symptoms, pathophysiology → epidemiology
DNA
Excretory system → Urine formation, Related disease
Bernoulli

Audience:

Roll No.	Enroll. No.	Name of Student	Semester	Sign
45	220501055 55	Dax Vala	2 nd	
06	220501006	Karmal bhuva	2 nd	
44	2205010 54	Vaghshiyaa Patel	2 nd	
30	2205010 37	Mangala mishra	2 nd	
19	220501026	Jagdulja VIVEK	2 nd	
16	220501018	Hariyani AYUSH	2 nd	
1	220501001	Bugdani Ravsing	2 nd	

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<p>Event : Peer learning session</p> <p>Faculty: Faculty of Health Sciences</p> <p>Department: School of Pharmaceutical Sciences</p> <p>Session Taken By: Patel Parth Ashokbhai</p> <p>Semester: 6 Signature: <u>Parth A</u></p> <p>Topic Discuss:</p> <ul style="list-style-type: none"> - Controlled drug delivery system - Transdermal drug delivery system - Mechanism of Absorption - QA testing & Packaging. - validation 																																														
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Event : Peer learning session Faculty: Faculty of Health Sciences Department: School of Pharmaceutical Sciences Session Taken By: - Chaghara Heairy. v. Semester: 3 rd . Topic Discuss: Centrifugation phenol water system HLB Scale Naphthalene → Filtration → Aromatic amine → microscope introduction → solubility																																									
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Yogidham Gurukul, Kaliawad Road, Rajkot - 360005, Gujarat (INDIA)

Date: 15/11/21

Event : Peer learning session

Faculty: Faculty of Health Sciences

Department: School of Pharmaceutical Sciences

Session Taken By: Srikant Patel Rajsuri munsukhbhai

Semester: III

Signature:

Topic Discuss:

1) physical pharmacy :- HLB scale , contact Angle , suspending agent , rheology

2) pharmaceutical engineering :- size reduction , mixer , distribution , evaporation , crystallization

3) microbiology :- culture media , hanging drop , E. coli , sterilization , aseptic area.

4) organic chemistry :- isomerism , isomers

Audience:

Roll No.	Enroll. No.	Name of Student	Semester	Sign
43	200501055	Bhairavi Patel	3 rd year	
44	200501068	Vaidikamya Rushabh	3	
45	200501060	Savitri Sonali	3	
46	200501062	Shingra Jenisha	3	
47	200501053	Ramani Vidhi	3	
48	200501048	Pipariya Trusha	3	
49	200501066	Nivedica Meusamee	3	
50	200501003	Bhalodi Riya	3	



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Date: 16/01/24

Event : Peer learning session

Faculty: Faculty of Health Sciences

Department: School of Pharmaceutical Sciences

Session Taken By: Vagya pureshbhai kothiyaji

Semester: 1st Signature:

Topic Discuss:

- ① pharmaceutical Analysis - Acid base neutralization curve
- ② cardiovascular syst.
- ③ Acid-base indicator.
- ④ Titrimetric Analysis & types of solvent used in non eq. titn.
- ⑤ Introduction of suppository.

Audience:

Roll No.	Enroll. No.	Name of Student	Semester	Sign
13	230501013	bhavya chikhaliya	1 st	
15	230501016	Dhruvan Mahesh	1 st	
49	230501050	Husdik adedasvi	1 st	
50	230501051	Pallavi Harsh	1 st	
28	230501069	Aryan Shah	1 st	
24	230501055	Ramod Harsh	1 st	
55	230501056	Parmit Tejash	1 st	

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(Established under the Gujarat Sahitya Akademi Act No. 54 of 1990)

(Established under the Gujarat Private University Act 11, 2018)

Vigraham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

Roll No.	Enroll. No.	Name of Student	Semester	Sign
33	230501034	Kalyani S. Kulkarni	1 st	Kalyani
34	230501035	KUNZ M. Kulkarni	1 st	KUNZ
36	230501037	Maryam Kunzurani	1 st	Maryam
35	230501038	Dhruvin Kunzurani	1 st	Dhruvin
30	230501039	Jethva Nisarg	1 st	Nisarg
27	230501040	Tadev Atul	1 st	Atul
40	230501041	Ketuvalya Trushali	1 st	Trushali
22	230501029	Gondha Rushi	1 st	Rushi
21	230501022	Grimi Tisha	1 st	Tisha
22	230501023	Nishtha Gopalika	1 st	Nishtha
40	230501024	Raj Vimalgami	1 st	Vimalgami
	390305034	Kanishka Vinaygami	1 st	Kanishka
34	230703035	Jay Upanshadi	1 st	Jay
-G3	230703036	Purnima Meenakshi	1 st	Purnima
F-G2	230703037	Nip Raimoli	1 st	Nip
97	230703038	Patil - Nitola	1 st	Nitola



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Established under the Gujarat Private University Act II, 2018
Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

Date: 11/10/21

Event : Peer learning session
Faculty: Faculty of Health Sciences
Department: School of Pharmaceutical Sciences
Session Taken By: Vacheriya Mausamee
Semester: III **Signature:**

Topic Discuss:

- pathophysiology :- Apoptosis, Necrosis, Tissue damage, Neurohumoral Transmission
- pharmaceutical Microbiology = culture media
- physical phaceutics = solubility.
- pharmaceutical Organic chem 2 = Aromatic Amine, Aromatic Acid
- pharmaceutical engineering : filtration, Mixing

Audience:

Roll No.	Enroll. No.	Name of Student	Semester	Sign
17	200501029	Leelhei Patelik	3 rd	<i>[Signature]</i>
23	200501031	Madhemi Gargi	3 rd	<i>[Signature]</i>
24	200501033	Mukundik Jenil	3 rd	<i>[Signature]</i>
37	200501040	Pipuriya Trushu	3 rd	<i>[Signature]</i>
9	200501041	Desruniye Mansi	3 rd	<i>[Signature]</i>
49	200501066	Vrudhiniya Rushita	9 th	<i>[Signature]</i>
45	200501060	Ismuniya Sunali	9 th	<i>[Signature]</i>

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Event : Peer learning session Faculty: Faculty of Health Sciences Department: School of Pharmaceutical Sciences Session Taken By: <u>Bhartiya Katali Rajeshbhai.</u> Semester: <u>III</u> Signature:																																									
Topic Discuss: HAP • Eye • Eye • Blood component Pharmaceutics – Dosage Form - Prescription Acid-Base Titration , sum , All Titration CHF , Parkinson's , Gout , Renal DNA, transcription, Translation.																																									
Audience: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Roll No.</th> <th>Enroll. No.</th> <th>Name of Student</th> <th>Semester</th> <th>Sign</th> </tr> </thead> <tbody> <tr> <td>34</td> <td>220501063</td> <td>Bagariya Hem. J.</td> <td>3rd</td> <td></td> </tr> <tr> <td>27</td> <td>22050 - 1031</td> <td>Limbasiya Shreya H.</td> <td>3rd</td> <td></td> </tr> <tr> <td>38</td> <td>220501048</td> <td>Bhartiy Shivani J.</td> <td>3rd</td> <td></td> </tr> <tr> <td>04</td> <td>220501004</td> <td>Bhalodi Nehali P.</td> <td>3</td> <td></td> </tr> <tr> <td>02</td> <td>220501092</td> <td>Bavdiyal Aparel I.</td> <td>3</td> <td></td> </tr> <tr> <td>32</td> <td>22050104*</td> <td>Pansuriya Janak S.</td> <td>3rd</td> <td></td> </tr> <tr> <td>19</td> <td>220501022</td> <td>Jayadiya Vimal</td> <td>3rd</td> <td></td> </tr> </tbody> </table>		Roll No.	Enroll. No.	Name of Student	Semester	Sign	34	220501063	Bagariya Hem. J.	3 rd		27	22050 - 1031	Limbasiya Shreya H.	3 rd		38	220501048	Bhartiy Shivani J.	3 rd		04	220501004	Bhalodi Nehali P.	3		02	220501092	Bavdiyal Aparel I.	3		32	22050104*	Pansuriya Janak S.	3 rd		19	220501022	Jayadiya Vimal	3 rd	
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S3	220501001	Pathak Kena	3	Ponapathak.
42	220501052	Patel	3 m/f	Patel.
40	220501058	Taraliya Ishita	3 m/f	Patel .
48	220501010	Velsavaliya Vishva	3 m/f	Vishva.
29	220501010	Motianiya Krupali	3 m/f	Rajvade .
43	220501053	Vadodariya Sarati	3	Sarati.
35	220501054	Sachchiya Dhruvi	3	Sachchi .
45	220501055	Velji Jalkesh V.	3	Jalkesh.
36	220501056	Shivani Dhruv R.	3	Dhruv.
49	220501057	Shyam vidi	3	Shyam.
47	220501057	Vasani Hemashil K.	3	Hemashil .



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<p>Event : Peer learning session</p> <p>Faculty: Faculty of Health Sciences</p> <p>Department: School of Pharmaceutical Sciences</p> <p>Session Taken By: Manasipunji Vatsalkumar muheshbhai</p> <p>Semester: 5th Signature:</p> <p>Topic Discuss: Antihistaminic agents, H₂ antagonists sub: JP -- tablet manufacturing, capsules, penet, pharmaceutical product</p> <p>med chem-2 - Diuretic, Anti diabetics, drug testing on cardiovascular system</p> <p>med chem-2 - Antihistaminic agents, antineoplastic agent Anticyanins</p> <p>p. jurisprudence - drugs & cosmetic act, 1940 & its rules 1945, pharmaceutical act-1948</p> <p>Pharmacognosy-2 :- Isolation, identification and analysis of phytoconstituents, basics of phytochemistry,</p>																																														
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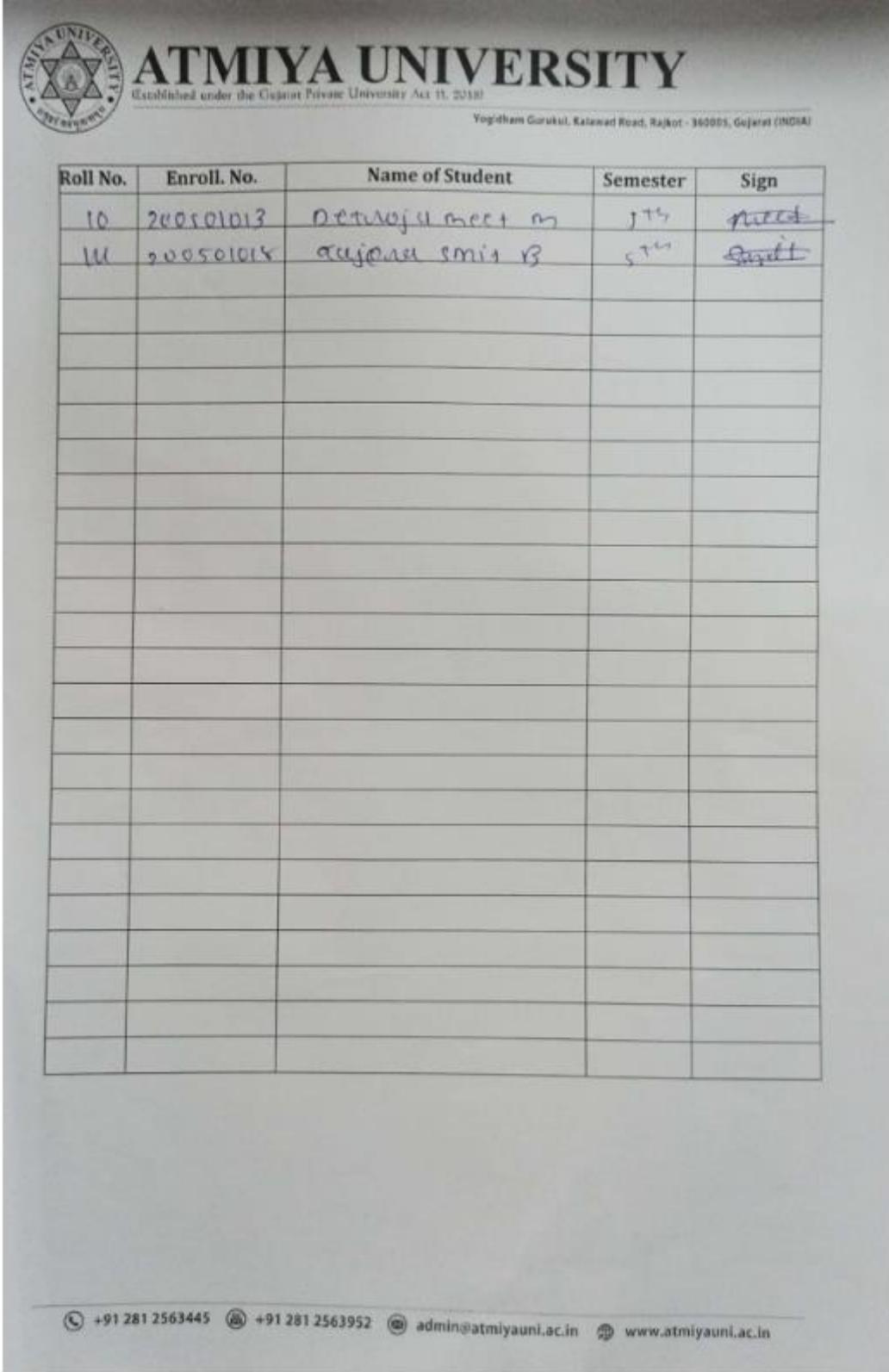
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AISHE: U-0967

Criterion- 2

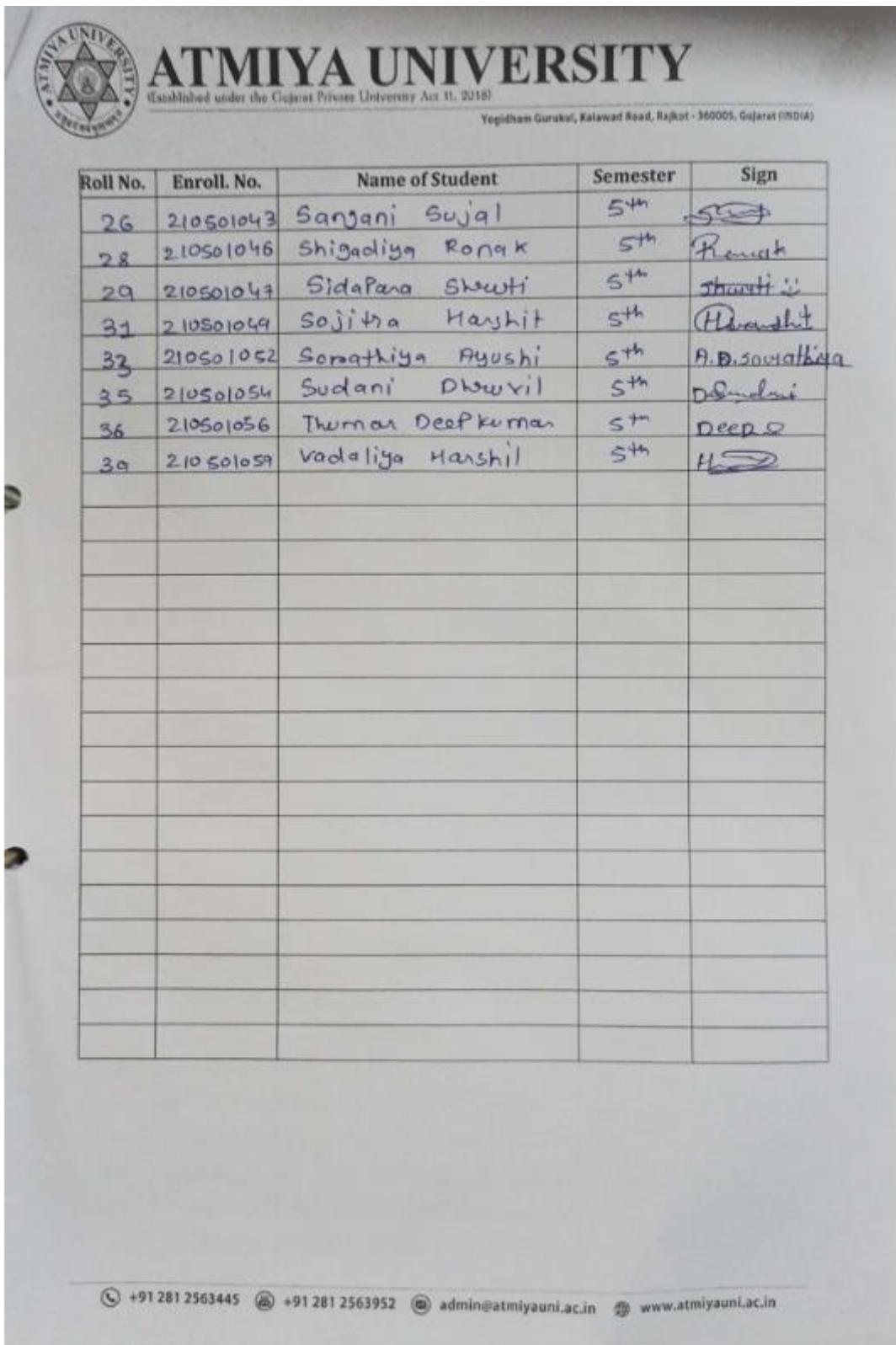
KI 2.3 | M 2.3.1

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Date: 4/4/22																																														
<p>Event : Peer learning session</p> <p>Faculty: Faculty of Health Sciences</p> <p>Department: School of Pharmaceutical Sciences</p> <p>Session Taken By: Rathod Hardik N.</p>																																														
<p>Semester: IV</p>	<p>Signature:</p>																																													
<p>Topic Discuss:</p> <ul style="list-style-type: none"> → Pharmacokinetic and Pharmacodynamics → Adverse Drug Reactions → Drug Interactions → Rheology → Cholinergic Neurotransmitters → Adrenergic Neurotransmitters → Introduction of Pharmacology → Classification of Drugs → Primary Metabolites 																																														
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Date: 9/07/23																																										
Event : Peer learning session Faculty: Faculty of Health Sciences Department: School of Pharmaceutical Sciences Session Taken By: Nisarg R. Vala Semester: II II nd Signature: Topic Discuss:																																										
Pathophysiology <ul style="list-style-type: none"> - Parkinson Disease :- Reasons , causes , Brain deformities etc - HEART Disease :- congestive Heart failure . - Renal disease :- Acute , chronic kidney disease - Diabetes Typ-I,II : Diabetes Mellitus Biochemistry <ul style="list-style-type: none"> - DNA RNA Metabolism :- Purines, Pyrimidines - Transcription, Translation:- DNA Synthesis Proteins . - Protein Synthesis 																																										
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Date: 11/13/24																																															
Event : Peer learning session Faculty: Faculty of Health Sciences Department: School of Pharmaceutical Sciences Session Taken By: Sonalthiya Shyushil D. Semester: 6 Signature:																																															
Topic Discuss: pharmacology :- Anticancer Antihelmintic chemotherapeutic agents Antibiotics Biopharmaceutics :- • NLPK • compartment modeling • excretion • absorption																																															
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Date: 14/9/22																																															
<p>Event : Peer learning session</p> <p>Faculty: Faculty of Health Sciences</p> <p>Department: School of Pharmaceutical Sciences</p> <p>Session Taken By: Maheshkumar Vatsalkumar Meheshtbhai</p> <p>Semester: 5th Signature:</p> <p>Topic Discuss: Antihistamine agents, its antagonist sub.</p> <p>JP -- tablet manufacturing, capsules, penet, pharmaceutical product</p> <p>category-2 - Diuretic, Anti diabetics, drug testing on cardiovascular system</p> <p>med. chem-2 - Antihistamine agents, antineoplastic agent Anticancer</p> <p>p. jurisprudence - drugs & cosmetic act, 1940 & its rules 1945, Pharmacy act-1948</p> <p>Pharmacognosy-2 :- Isolation, Identification and analysis of phytoconstituents, basics of phytochemistry,</p>																																															
<p>Audience:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Roll No.</th> <th>Enroll. No.</th> <th>Name of Student</th> <th>Semester</th> <th>Sign</th> </tr> </thead> <tbody> <tr> <td>04</td> <td>200501004</td> <td>Anus Bisutkhan</td> <td>5th</td> <td></td> </tr> <tr> <td>07</td> <td>200501006</td> <td>Yashraj chowdy</td> <td>5th</td> <td></td> </tr> <tr> <td>08</td> <td>200501007</td> <td>Dhvansh chudasma</td> <td>5th</td> <td></td> </tr> <tr> <td>18</td> <td>200501025</td> <td>Kelumani priyali</td> <td>5th</td> <td></td> </tr> <tr> <td>40</td> <td>200501051</td> <td>meet</td> <td>5th</td> <td></td> </tr> <tr> <td>28</td> <td>200501047</td> <td>Jay Rubadiya</td> <td>5th</td> <td></td> </tr> <tr> <td>29</td> <td>200501038</td> <td>Vivek muvuni</td> <td>5th</td> <td></td> </tr> <tr> <td>12</td> <td>200501016</td> <td>dhinaja meet m</td> <td>5th</td> <td></td> </tr> </tbody> </table>			Roll No.	Enroll. No.	Name of Student	Semester	Sign	04	200501004	Anus Bisutkhan	5th		07	200501006	Yashraj chowdy	5th		08	200501007	Dhvansh chudasma	5th		18	200501025	Kelumani priyali	5th		40	200501051	meet	5th		28	200501047	Jay Rubadiya	5th		29	200501038	Vivek muvuni	5th		12	200501016	dhinaja meet m	5th	
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Event : Peer learning session Faculty: Faculty of Health Sciences Department: School of Pharmaceutical Sciences Session Taken By: Rathod Hardik N. Semester: IV Signature:																																															
Topic Discuss: → Pharmacokinetic and Pharmacodynamics → Adverse Drug Reactions → Drug Interactions → Rheology → Cholinergic Neurotransmitters → Adrenergic Neurotransmitters → Introduction of Pharmacology → Classification of Drugs → Primary Metabolites																																															
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Event : Peer learning session Faculty: Faculty of Health Sciences Department: School of Pharmaceutical Sciences Session Taken By: Patel Parth Ashokbhai Semester: 6 Signature: <u>Parth A</u> Topic Discuss: <ul style="list-style-type: none"> - Controlled drug delivery system - Transdermal drug delivery system - Mechanism of Absorption - QA testing & packaging. - validation 																																														
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Date: 15/11/21

Event : Peer learning session

Faculty: Faculty of Health Sciences

Department: School of Pharmaceutical Sciences

Session Taken By: Srikant Patel Rajsuri munsukhbhai

Semester: III

Signature:

Topic Discuss:

1) physical pharmacy :- HLB scale , contact Angle , suspending agent , rheology

2) pharmaceutical engineering :- size reduction , mixer , distribution , evaporation , crystallization

3) microbiology :- culture media , hanging drop , E.coli , sterilization , aseptic area.

4) organic chemistry :- isomerism , isomers

Audience:

Roll No.	Enroll. No.	Name of Student	Semester	Sign
43	200501055	Bhairavi Patel	3 rd year	
44	200501068	Vaidikamya Rushabh	3	
45	200501060	Savitri Sonali	3	
46	200501062	Shingra Jenisha	3	
47	200501053	Ramani Vidhi	3	
48	200501048	Pipariya Trusha	3	
49	200501066	Nivedica Meusamee	3	
50	200501003	Bhalodi Riya	3	



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 Yogidham Gurukul, Relawad Road, Rajkot - 360005, Gujarat (INDIA)

Date: 11/10/21

Event : Peer learning session
Faculty: Faculty of Health Sciences
Department: School of Pharmaceutical Sciences
Session Taken By: Vacheriya Mausamee
Semester: III **Signature:**

Topic Discuss:

- pathophysiology :- Apoptosis, Necrosis, Tissue damage, Neurohumoral Transmission
- pharmaceutical Microbiology = culture media
- physical phaceutics = solubility.
- pharmaceutical Organic chem 2 = Aromatic Amine, Aromatic Acid
- pharmaceutical engineering : filtration ,Mixing

Audience:

Roll No.	Enroll. No.	Name of Student	Semester	Sign
17	200501029	Leelhei Patelik	3 rd	<i>[Signature]</i>
23	200501031	Madhavi Gargi	3 rd	<i>[Signature]</i>
24	200501033	Mukundu Jenil	3 rd	<i>[Signature]</i>
37	200501040	Pipuriya Trushu	3 rd	<i>[Signature]</i>
9	200501041	Devaraniya Mansi	3 rd	<i>[Signature]</i>
49	200501066	Vidyutmiya Rushita	9 th	<i>[Signature]</i>
45	200501060	Ishwarya Sunali	9 th	<i>[Signature]</i>

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Date: 12/12/23																																										
Event : Peer learning session Faculty: Faculty of Health Sciences Department: School of Pharmaceutical Sciences Session Taken By: <i>Bhartiya Kutilal Rajeshbhai.</i> Semester: <u>III</u> Signature: <i>[Signature]</i> Topic Discuss: HAP • Eye • Eye • Blood component Pharmaceutics – Dosage Form - Prescription Acid-Base titration , sum , All titration CHF , Parkinson's , Gout , Renal DNA, transcription, Translation.																																										
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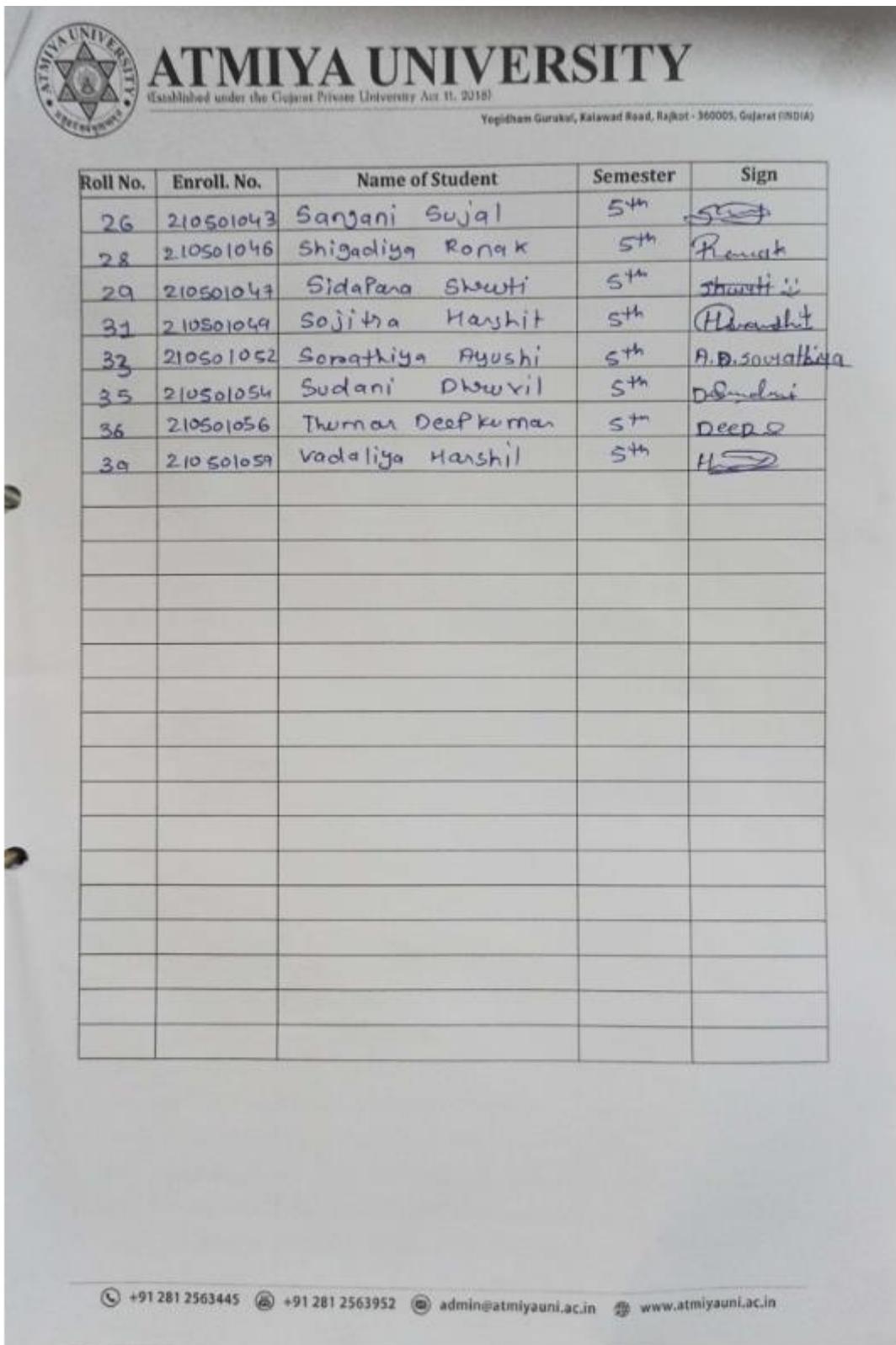
S3	220501001	Pathak Kena	3	Ponapathak.
42	220501052	Patel	3 m/f	Patel.
40	220501058	Taraliya Ishita	3 m/f	Patel .
48	220501010	Velsavaliya Vishva	3 m/f	Vishva.
29	220501010	Motianiya Krupali	3 m/f	Rajvade .
43	220501053	Vadodariya Sarati	3	Sarati.
35	220501054	Sachchiya Dhruvi	3	Sachchi .
45	220501055	Velji Jalkesh V.	3	Jalkesh.
36	220501056	Shivani Dhruv R.	3	Dhruv.
49	220501057	Shyam vidiya	3	Shyam.
47	220501057	Vasani Hemashil K.	3	Hemashil .



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<p align="center">ATMIYA UNIVERSITY <small>(Established under the Gujarat Private University Act II, 2018)</small> Yogdham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)</p> <p align="right">Date: 12/01/23</p> <p>Event : Peer learning session</p> <p>Faculty: Faculty of Health Sciences</p> <p>Department: School of Pharmaceutical Sciences</p> <p>Session Taken By: Jadeja Hanshviba J.</p> <p>Semester: 5th Signature: </p> <p>Topic Discuss:</p> <ul style="list-style-type: none"> • IP :- ↳ Preformulation ↳ Tablet - IPDC ↳ Parenterals • Cology - II :- ↳ Anti - anginal drugs ↳ Anti - Arrhythmic drugs ↳ Diuretics ↳ Gout ↳ Bioassay • Medchem II:- ↳ H₂-antagonist ↳ Diuretics ↳ Anti-Hypertensive <p>Audience:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Roll No.</th> <th>Enroll. No.</th> <th>Name of Student</th> <th>Semester</th> <th>Sign</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>210501002</td> <td>Amrutiya Janki</td> <td>5th</td> <td></td> </tr> <tr> <td>5</td> <td>210501011</td> <td>Dholariya Vaibhav</td> <td>5th</td> <td></td> </tr> <tr> <td>7</td> <td>210501014</td> <td>Jadeja Mahipalsinh</td> <td>5th</td> <td></td> </tr> <tr> <td>9</td> <td>210501018</td> <td>Kangad Matek</td> <td>5th</td> <td></td> </tr> <tr> <td>12</td> <td>210501022</td> <td>Kalsundha Yash</td> <td>5th</td> <td></td> </tr> <tr> <td>16</td> <td>210501030</td> <td>Nakun Mehal</td> <td>5th</td> <td></td> </tr> <tr> <td>19</td> <td>210501033</td> <td>Pan Manshi</td> <td>5th</td> <td></td> </tr> <tr> <td>25</td> <td>210501042</td> <td>Ramani Meet</td> <td>5th</td> <td></td> </tr> </tbody> </table> <p align="center"> +91 281 2563445 +91 281 2563952 admin@atmiyauni.ac.in www.atmiyauni.ac.in </p>	Roll No.	Enroll. No.	Name of Student	Semester	Sign	3	210501002	Amrutiya Janki	5 th		5	210501011	Dholariya Vaibhav	5 th		7	210501014	Jadeja Mahipalsinh	5 th		9	210501018	Kangad Matek	5 th		12	210501022	Kalsundha Yash	5 th		16	210501030	Nakun Mehal	5 th		19	210501033	Pan Manshi	5 th		25	210501042	Ramani Meet	5 th		
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Date: 21/10/23

Event : Peer learning session

Faculty: Faculty of Health Sciences

Department: School of Pharmaceutical Sciences

Session Taken By: Mandavia Keyur Pankashbhai

Semester: II **Signature:**

Topic Discuss:

Reveal Kidney failure, Chf, mills, ball mill, hammer mill, Edge runner mill etc.
Pharmaceutics → Solubility, mixing.
Dosage form – Solid, liquid, monophasic, Biphasic, semi-solid.
HNP → Brain, skeletal system
Eye → Retina, pupil, Cataract
Ear → Ear drum, mechanism of hearing
Digestive System
Solubility → Factors affecting solubility
Parkinson → Symptoms, Pathophysiology, Oidemology
N21mer → Symptoms, pathophysiology → oedema
depression → Symptoms, pathophysiology → epidemiology
DNA
Excretory system → Urine formation, Related disease
Bernoulli

Audience:

Roll No.	Enroll. No.	Name of Student	Semester	Sign
45	220501055 55	Dax Vala	2 nd	
06	220501006	Karmal bhuva	2 nd	
44	2205010 54	Vaghshiyaa Patel	2 nd	
30	2205010 37	Mangala mishra	2 nd	
19	220501026	Jagdulja VIVEK	2 nd	
16	220501018	Hariyani AYUSH	2 nd	
1	220501001	Bugdani Ravsing	2 nd	

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Date: 9/07/23																																										
Event : Peer learning session Faculty: Faculty of Health Sciences Department: School of Pharmaceutical Sciences Session Taken By: Nisarg R. Vala Semester: II II nd Signature: Topic Discuss: <ul style="list-style-type: none"> Pathophysiology <ul style="list-style-type: none"> - Parkinson Disease :- Reasons , causes , Brain deformities etc - HEART Disease :- congestive Heart failure . - Renal disease :- Acute , chronic kidney disease - Diabetes Typ-I,II : Diabetes Mellitus Biochemistry <ul style="list-style-type: none"> - DNA RNA Metabolism :- Purines, Pyrimidines - Transcription, Translation:- DNA Synthesis Proteins . - Protein Synthesis 																																										
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Event : Peer learning session Faculty: Faculty of Health Sciences Department: School of Pharmaceutical Sciences Session Taken By: - Chaghara Heairy. v. Semester: 3 rd . Topic Discuss: Centrifugation phenol water system HLB Scale Naphthalene → Filtration → Aromatic amine → microscope introduction → solubility																																									
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Date: 16/01/24

Event : Peer learning session

Faculty: Faculty of Health Sciences

Department: School of Pharmaceutical Sciences

Session Taken By: Vagya pureshbhai kothiyaji

Semester: 1st Signature:

Topic Discuss:

- ① pharmaceutical Analysis - Acid base neutralization curve
- ② cardiovascular syst.
- ③ Acid-base indicator.
- ④ Titrimetric Analysis & types of solvent used in non eq. titn.
- ⑤ Introduction of suppository.

Audience:

Roll No.	Enroll. No.	Name of Student	Semester	Sign
13	230501013	bhavya chikhaliya	1 st	
15	230501016	Dhruvan Mahesh	1 st	
49	230501050	Husdik adedasvi	1 st	
50	230501051	Pallavi Harsh	1 st	
28	230501069	Aryan Shah	1 st	
24	230501055	Ramod Harsh	1 st	
55	230501056	Parmit Tejash	1 st	

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Roll No.	Enroll. No.	Name of Student	Semester	Sign
33	230501034	Kalyani S. Kulkarni	1 st	Kalyani
34	230501035	KUNZ M. Kulkarni	1 st	KUNZ
36	230501037	Maryam Kunzkar	1 st	Maryam
35	230501038	Dhruvin Kunzkar	1 st	Dhruvin
30	230501039	Jethva Nisarg	1 st	Nisarg
27	230501040	Tadev Atul	1 st	Atul
40	230501041	Ketuvalya Trushali	1 st	Trushali
22	230501029	Gondha Rishi	1 st	Rishi
21	230501022	Grimi Tisha	1 st	Tisha
22	230501023	Nishtha Gopal	1 st	Gopal
40	230501024	Raj Vinayak	1 st	Vinayak
	390305034	Karishma Vinayak	1 st	Karishma
34	230703035	Jay Upansh	1 st	Jay
-G3	230703036	Priya Meenakshi	1 st	Priya
F-G2	230703037	Nip Reema	1 st	Reema
97	230703038	Patil - Nitika	1 st	Nitika



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Event : Peer learning session Faculty: Faculty of Health Sciences Department: School of Pharmaceutical Sciences Session Taken By: Khandra Rajan Chandaakantbhai Semester: I Signature:																																									
Topic Discuss: <ul style="list-style-type: none"> (1) Pharmaceutical Analysis : Acid base Neutralization curves related Problem Solution (2) types of Solvent for Non Aqueous Acid base titration (3) types of Sta reference and indicator electrodes. (4) discuss conductometry titration (5) Explain precipitation titration method like Volhard, Fazans Mohr's method. 																																									
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27	230501028	JUDUV A+41	2 st	DU
25	230501029	Het Kaneriya	1 st	HK
22	230501023	Rushi Gondha	1 st	RG
19	230501022	Darshil Gajerca	1 st .	DBG
20	230501021	Huldip Gajerca	1 st	CG
16	230501017	Dobariya Miraj	1 st	Miraj
11	230501011	Bhozaniya Srenjal	1 st	S
52	230501033	Panchchuri Krish	1 st	Krish
50	230501051	Harsh Palwar	1 st	HP
62	230501063	Dip Ramoliya	1 st	R.D.V.
64	230501065	Harosh Rathod .	1 st	Jharosh
13	230501013	Khavya Chhitaliya	1 st	KKC
5	230501051	Darash Devvaravu	1 st	DD
6	230501046	Bhalami Shyam	1 st	SS
24	230501045	Devuchand Patel H.	1 st	Heteet



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3. Concept Mapping

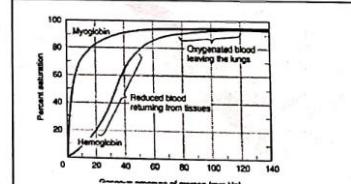
Concept mapping is utilized as a powerful tool to visually organize and represent knowledge. By connecting ideas through diagrams, students can better understand relationships, simplify complex topics, and enhance critical thinking. This method promotes clarity and retention, making learning more structured and effective.

**ATMIYA UNIVERSITY, Rajkot
Faculty of Science
Class activity: Concept mapping**

Program : M.Sc. Biotechnology	Semester : I	Batch : 2022-23
Course : 21MBTCC102 Core 2: Fundamental of Biochemistry		
Time: 10 mins.	Max. Marks : 10	Date : 11/10/22
Name of Students	Sagar Radadiya	
Enrollment No.		

1		Total Marks obtained 6/10
2		
3		
4		
5		

- ✓ 1. The oxygen dissociation curve of normal adult hemoglobin shown below is most effectively shifted to the right by
 a. Mixing with fetal hemoglobin
 (b) Increased 2,3-bisphosphoglycerate (BPG)
 c. Cooperative binding of oxygen
 d. Increased pH
 e. Decreased CO



Oxygen binding curves of myoglobin and hemoglobin. Note the reduced haemoglobin saturation at low oxygen pressure that allows better delivery of oxygen to peripheral tissues.

- ✗ 2. Myoglobin shows a hyperbolic response, while hemoglobin shows a sigmoidal response for oxygen binding. Which of the following statements are *true* with respect to this observation?
 P. hemoglobin binds 2, 3-BPG while myoglobin does not
 Q. hemoglobin exists in two different conformational states while myoglobin does not
 R. hemoglobin is a tetramer while myoglobin is a monomer
 S. hemoglobin is present in RBCs while myoglobin is present in the muscle
 a. R and S
 c. P and Q
 (b) S and P
 d. Q and R



- Q. 3. *Couples.* Indicate whether each of the following pairs of sugars consists of anomers, epimers, or an aldose-ketose pair:
- (a) d-glyceraldehyde and dihydroxyacetone 3
- (b) d-glucose and d-mannose 2
- (c) d-glucose and d-fructose 1
- (d) α -d-glucose and β -d-glucose 1
- (e) d-ribose and d-ribulose 3
- (f) d-galactose and d-glucose 2

4. Choose the correct statement from the following:
- a. Disulfide bonds in a 20-residue peptide can be formed only if the cysteines are adjacent to each other.
- b. The amino acid isoleucine has only one chiral centre.
- c. Both bases and sugar contribute to chirality of nucleic acids.
- d. The pI of aspartic acid is less than that of glutamic acid

5. Match the following bonds with their approximate energies:

(a)	Hydrogen bond	(i)	~0.5 Kcal
(b)	Van der walls forces	(ii)	40Kcal
(c)	Covalent bond	(iii)	80Kcal
(d)	Ionic bond	(iv)	3 Kcal

- a. (a)(iv),(b)(iii),(c)(ii),(d)(i)
b. (a)(ii),(b)(i), (c)(iii),(d)(iv)
c. (a)(i),(b)(iv), (c)(ii),(d)(iii)
d. (a)(iv),(b)(i),(c)(iii),(d)(ii)



ATMIYA UNIVERSITY, Rajkot

Faculty of Science

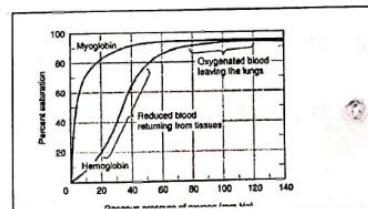
Class activity: Concept mapping

Program : M.Sc. Biotechnology	Semester : I	Batch : 2022-23
Course : 21MBTCC102 Core 2: Fundamental of Biochemistry		
Time: 10 mins.	Max. Marks : 10	Date : 11/10/2022
Name of Students	Bastida yash k.	
Enrollment No.		

1		Total Marks obtained 10%
2		
3		
4		
5		

1. The oxygen dissociation curve of normal adult hemoglobin shown below is most effectively shifted to the right by

- a. Mixing with fetal hemoglobin
- b. Increased 2,3-bisphosphoglycerate (BPG)
- c. Cooperative binding of oxygen
- d. Increased pH
- e. Decreased CO



Oxygen binding curves of myoglobin and hemoglobin. Note the reduced haemoglobin saturation at low oxygen pressure that allows better delivery of oxygen to peripheral tissues.

2. Myoglobin shows a hyperbolic response, while hemoglobin shows a sigmoidal response for oxygen binding. Which of the following statements are *true* with respect to this observation?

- P. hemoglobin binds 2,3-BPG while myoglobin does not
- Q. hemoglobin exists in two different conformational states while myoglobin does not
- R. hemoglobin is a tetramer while myoglobin is a monomer
- S. hemoglobin is present in RBCs while myoglobin is present in the muscle

- a. R and S
- b. S and P
- c. P and Q
- d. Q and R



3. *Couples.* Indicate whether each of the following pairs of sugars consists of anomers, epimers, or an aldose-keto pair:

- V
- (a) d-glyceraldehyde and dihydroxyacetone aldose - keto
- (b) d-glucose and d-mannose epimers
- ✗ (c) d-glucose and d-fructose anomers. aldose - keto
- (d) α -d-glucose and β -d-glucose anomers
- (e) d-ribose and d-ribulose aldose - keto
- (f) d-galactose and d-glucose epimers

4. Choose the correct statement from the following:

- 2
- a. Disulfide bonds in a 20-residue peptide can be formed only if the cysteines are adjacent to each other.
 - b. The amino acid isoleucine has only one chiral centre.
 - c. Both bases and sugar contribute to chirality of nucleic acids.
 - ④ d. The pI of aspartic acid is less than that of glutamic acid

5. Match the following bonds with their approximate energies:

(a)	Hydrogen bond	(i)	0.5 Kcal
(b)	Van der walls forces	(ii)	40Kcal
(c)	Covalent bond	(iii)	80Kcal
(d)	Ionic bond	(iv)	3 Kcal

- Q
- a. (a)(iv),(b)(iii),(c)(ii),(d)(i)
 - b. (a)(ii),(b)(i), (c)(iii),(d)(iv)
 - c. (a)(i),(b)(iv), (c)(ii),(d)(iii)
 - ④ d. (a)(iv),(b)(i),(c)(iii),(d)(ii)



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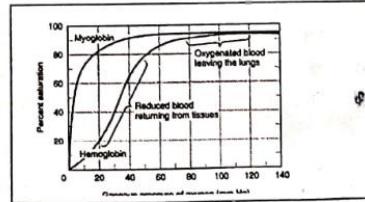
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Course : 21MBTCC102 Core 2: Fundamental of Biochemistry		
Time: 10 mins.	Max. Marks : 10	Date : 11/10/22
Name of Students	Kartik Patel Prince V.	
Enrollment No.	19	

1		Total Marks obtained 10 - 1 9
2		
3		
4		
5		

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- a. R and S
c. P and Q

- b. S and P
d. Q and R

✓ 2



3. *Couples.* Indicate whether each of the following pairs of sugars consists of anomers, epimers, or an aldose-ketone pair:

✓ (a) d-glyceraldehyde and dihydroxyacetone aldose - ketone

✓ (b) d-glucose and d-mannose epimers ✓ 2

✓ (c) d-glucose and d-fructose anomers aldose - ketone.

✓ (d) α-d-glucose and β-d-glucose anomers

✓ (e) d-ribose and d-ribulose aldose - ketone

✓ (f) d-galactose and d-glucose epimers

✓ 4. Choose the correct statement from the following:

- a. Disulfide bonds in a 20-residue peptide can be formed only if the cysteines are adjacent to each other.
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✓ 5. Match the following bonds with their approximate energies:

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✓ a. (a)(iv),(b)(iii),(c)(ii),(d)(i)

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✓ c. (a)(i),(b)(iv), (c)(ii),(d)(iii)

✓ (a)(iv),(b)(i),(c)(iii),(d)(ii)



3. Couples. Indicate whether each of the following pairs of sugars consists of anomers, epimers, or an aldose-keto pair:

(2)

(a) d-glyceraldehyde and dihydroxyacetone
(aldose - keto)

(b) d-glucose and d-mannose
(Epimers)

(c) d-glucose and d-fructose
(Anomers)

(d) α -d-glucose and β -d-glucose
(Epimers)

(e) d-ribose and d-ribulose
(Anomers)

(f) d-galactose and d-glucose
(Epimers)

4. Choose the correct statement from the following:

(cystein)

- a. Disulfide bonds in a 20-residue peptide can be formed only if the cysteines are adjacent to each other.
- b. The amino acid isoleucine has only one chiral centre. (more than one)
- c. Both bases and sugar contribute to chirality of nucleic acids. (Only sugar)
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d. (a)(iv),(b)(i),(c)(iii),(d)(ii)



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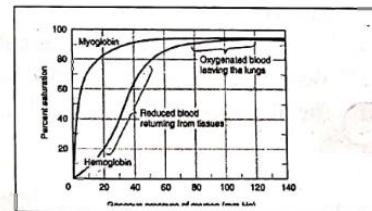
Class activity: Concept mapping

1.5

Program : M.Sc. Biotechnology	Semester : I	Batch : 2022-23
Course : 21MBTCC102 Core 2: Fundamental of Biochemistry		
Time: 10 mins.	Max. Marks : 10	Date : 21 - 10 - 22
Name of Students	Badi Mohammad sekhia	
Enrollment No.		

1	2	Total Marks obtained 4.5
2	0	
3	0.5	
4	2	
5	0	

- ② 1. The oxygen dissociation curve of normal adult hemoglobin shown below is most effectively shifted to the right by
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d. Q and R



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(0.5)

(a) d-glyceraldehyde and dihydroxyacetone aldose ketone ✓

(b) d-glucose and d-mannose anomers (EP) ✗

(c) d-glucose and d-fructose epimers ✗

(d) α-d-glucose and β-d-glucose epimers ✗

(e) d-ribose and d-ribulose anomers ✗

(f) d-galactose and d-glucose anomers - ✗

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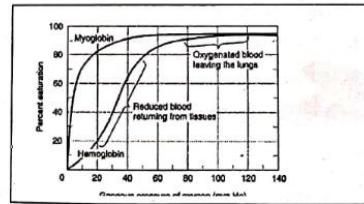


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Class activity: Concept mapping

Program : M.Sc. Biotechnology	Semester : I	Batch : 2022-23
Course : 21MBTCC102 Core 2: Fundamental of Biochemistry		
Time: 10 mins.	Max. Marks : 10	Date : 11 / 10 / 2022
Name of Students	Jadeja Meetaasinh N.	
Enrollment No.	220621014	

1	2	Total Marks obtained 4
2	0	
3	2	
4	0	
5	0	

- ✓ 1. The oxygen dissociation curve of normal adult hemoglobin shown below is most effectively shifted to the right by
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- a. R and S
 c. P and Q

b. S and P
 d. Q and R



CLASS ACTIVITY, DATE 20/2/2022

Department of Biotechnology	B.Sc. Biotechnology, Semester IV
Course Code: 21BBTCC401	Practical 4: Molecular and Cell Culture Techniques
Enrolment No	21601040
Name & signature	Shavya Vagadiya <u>Bhatia</u>

Answer in brief

(2)

1. Give the function of DPA.

DPA = Diphenylalanine. It is the method for estimation of DNA.
gives acidic condition.
gives blue colour.

2. What is orcinol.

Orcinol is method for estimation of RNA.
It gives green colour.

3. Give the function of SDS.

✗

4. How TE buffer is important in DNA isolation.

TE = Tris-Ethyl buffer.
TE buffer maintains the pH

✗

5. Which component of Blood is taken for DNA isolation and why. Write the name of reagent.

✗





6. What does RCF stand for?

7. Write the relationship between RPM & RCF.

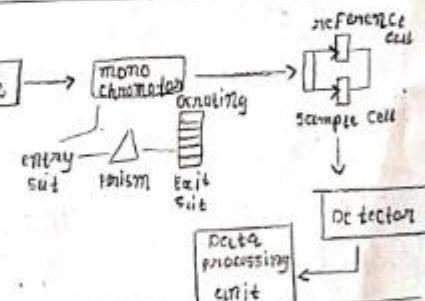
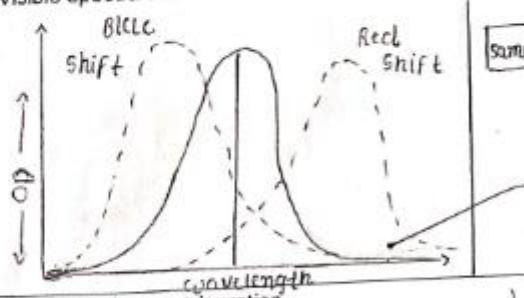
$$RCF = 1.12 \times 10^5 \times n \times (n \text{ rpm})^2$$

$$(n \text{ rpm})^2 = \frac{RCF}{1.12 \times 10^5 \times n}$$

8. What is the principle of the UV-visible Spectrophotometer?

UV-visible Spectroscopy used to find specific wavelength.
It consists Sample, monochromator, detector, Data processing unit.

9. Draw UV-Visible spectra and mark Red-shift and Blue-shift.



10. Give the precaution before centrifugation.

Centrifuge at specific rpm or time.



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CLASS ACTIVITY, DATE 20/2/2022

Department of Biotechnology	B.Sc. Biotechnology, Semester IV
Course Code: 2IBBTCC401	Practical 4: Molecular and Cell Culture Techniques
Enrolment No	210601033.
Name & signature	Shweta R. Prasad.

Answer in brief

(24)

1. Give the function of DPA.

It deproteinized the DNA, which is O-HEA to form blue
stain with colour.

2. What is orcinol.

Orcinol is the concentrated acid which reacts with
RNA, in furfural form to give green colour.
of RNA.

3. Give the function of SDS.

SDS is used to dissolve cell membrane into it. It
break down the cell membrane.

(2)

4. How TE buffer is important in DNA isolation.

TE buffer is used to dissolve DNA pellet for
further process like Gel-electrophoresis.

✓

5. Which component of Blood is taken for DNA isolation and why. Write the name of reagent.

WBCs are taken for DNA isolation as they consist of
nucleus and genetic material into it. RBC lysis buffer,
Nucleic lysis buffer.



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6. What does RCF stand for?

Relative centrifugal force.

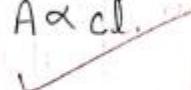


7. Write the relationship between RPM & RCF.

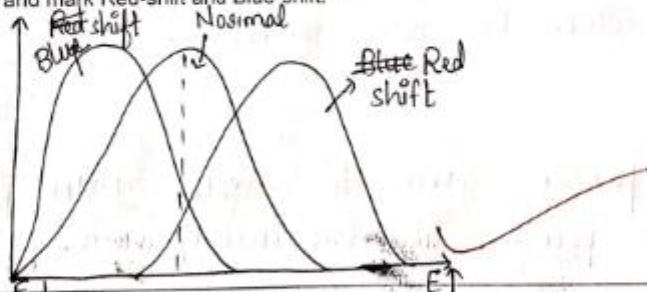
$$RCF = 1.12 \times 10^8 \times RPM$$

8. What is the principle of the UV-visible Spectrophotometer?

The principle of UV-visible spectrophotometer is Beer-Lambert law, which is $A \propto cl$.



9. Draw UV-Visible spectra and mark Red-shift and Blue-shift.



10. Give the precaution before centrifugation.

- The vials or tubes should be balanced volumetrically.
- in gasket.
- When centrifugation starts motor should be on and break should be off.
- Check that centrifuge does not produce sound while rotating.

