

Prof. T. J.SAWANT D.E.E,B.E.(Elec.), MISTE Founder-Secretary

#### JAYAWANT SHIKSHAN PRASARAK MANDAL'S

#### JAYAWANTRAO SAWANT COLLEGE OF PHARMACY & RESEARCH

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E-mail:jspm.jscopr@gmail.comWebsite:www.jspm.edu.in (Approved by PCI & AICTE, New Delhi, DTE, Govt. of Maharashtra, Mumbai, and Affiliated to Savitribai Phule Pune University, Pune) DTE Code: PH6387



Dr V.V. POTNIS M.Pharm., Ph.D. Principal

To, The Coordinator, NAAC, Bengaluru.

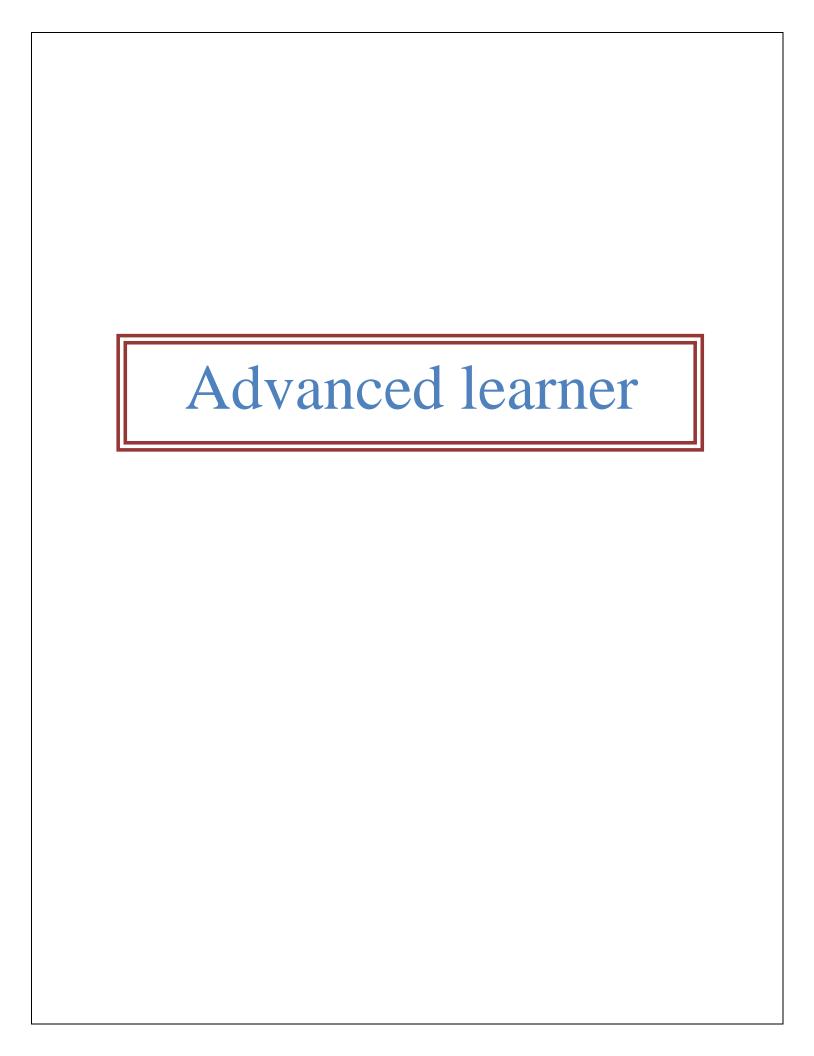
Subject: Proof of The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Reference: 2.2.1 The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

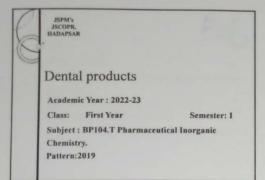
Dear Sir/Madam,

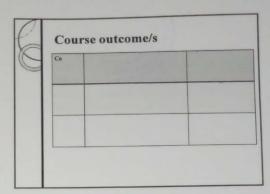
2.2.1

 Relevant documents of the institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners



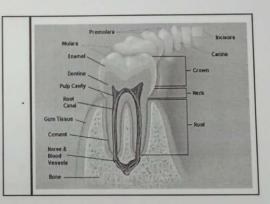
#### Power point presentation





#### Contents

- > Introduction of tooth
- > Dental Diseases
- ➤ Signs and Symptoms
- > Dental Products & Classification
- > Dental Cements and Fillers
- > Temporary Cement/Fillers





- · Diphyodont-teeth originates twice in life Adontia-Absence of teeth,
- Hypodontia-Less then 32,
- Hyperdontia-More than 32 Anatomy of Tooth
- A. Crown- 1. Enamel 2. Dentin 3. Pulp Cavity-Pulp
- B. Neck- 1, 2, 3, + 4. Part of Gum Tissue (Area where crown joins root)
- C. Root-2,3,4, + 5. Cementum



• Enamel

96 % mineral+ 4 % (water + protein), Hardest, Strongestbut Brittle, exposed to food and saliva.



· Dentin-

75 % mineral,

below enamel in crown and under Cementum in root,

determines size and shape of tooth, substructure below enanmel. gives flexibility and absorb forces without fracturing.



• Cementumless than 75 % mineral. helps to attach teeth to jaw bones Minerals- Apatitecrystais (CaPO, and CaCO3) General formula- CaelPOsk1OH2(S)

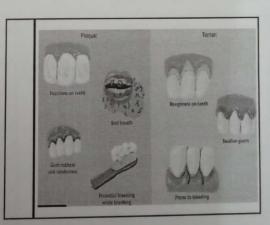
#### Dental Diseases:

- A. Dental Plaques-(Bacteria + food particles)
- 1. Soft Yellow sticky bio-film on enamel, junction of enamel and gums margins.
- 2. consist of microorganism; extracellular matrix (proteins, long chain polysaccharides and lipids) and food particles.
- 3. Bacteria-converts carbohydrates to acids (mostly lactic acid)
- 4. which causes demineralization of tooth, micro-cavities and cavities.
- 5. Bacteria Streptococcus Mutants, Anaerobes - Actinobacteria, Fusobacterium





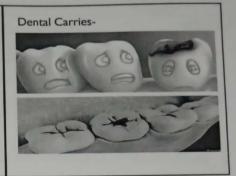
- B. Dental Calculus/Tartar-Hardened
- Dental Plaque, due to deposition of minerals further on plaque. (mostly consist of Octacalcium Phosphate)
   (Bacteria + food particles+ Minerals in food)





 C. Dental Carries- tooth decay or cavity, irreversible infection causing demineralization of enamel, dentin and cementum, by production of acid via hydrolysis of food on teeth surface Caused by- Streptococci, Lactobacilli, Actinomyces and Nocardia Species







#### Signs and Symptoms

- 1. Chalky white spot on enamel, indicating demineralization (microcavity)
- 2. Demineralizatio turns brown and forms cavities (Irreversible)
- 3. Reaches to dentin, pulp and to nervestooth ache, hypersensitivity to cold and hot food, bad breath, foul taste



- 4. May lead to
- a) Ludwig's Angina-connective tissue infection to floor of mouth
- b) Cavernous Sinus Thrombosis-(CST)blood clot in cavernous sinus, cavity at base of brain (deoxygenated blood is collected before going to heart)

#### **Dental Products-**





#### Dental Products-

- Preparations used to diagnose and or treat dental or periodontal diseases
- and in general to maintain oral hygiene; to reduce tooth ache,
- hypersensitivity, foul odour due to dental and periodontal diseases
- eg. Cleansing and Polishing Agents-CaCO3 Anti-caries Agents-NaF, SnF2

Viepoloro



### Arunkumar N, Deecaraman M<sub>1</sub>, Rani C<sub>2</sub>, Mohanraj K P<sub>3</sub>, Venkateskumar K

Department of Pharmaceutics, KMCH College of Pharmacy, Coimbatore, Department of Industrial Biotechnology, Dr. MGR University, Chennai, Department of Pharmaceutics, S.B. College of Pharmacy, Sivakasi, Department of Pharmaceutical Technology, Jadavpur University, Kolkatta, India

Key words: Atorvastatin, crystalline state, dissolution, high pressure homogenization, nanosuspensions

#### INTRODUCTION

Address for correspondence:

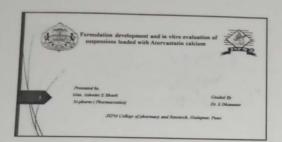
Dr. N. Arunkumar, Department of Pharmaceutics,
KMCH College of Pharmacy, Coimbatore – 641 048,

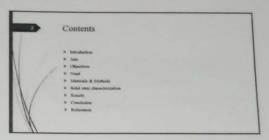
India. E-mail: mmcarun@gmail.com DOI: 10.4103/0973-8398.63982 the dissolution of poorly soluble compounds. One such novel technology is Nanosuspension technology.

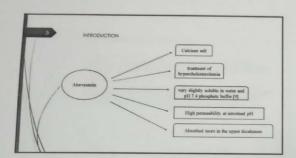
Atorvastatin is currently used as calcium salt for the treatment of hypercholesterolemia. It is insoluble in aqueous solution of pH 4 and below; it is very slightly soluble in water and pH 7.4 phosphate buffer. The intestinal permeability of atorvastatin is high at the physiologically relevant intestinal pH. The drug is absorbed more in the upper duodenum and in the upper small intestine regions. However, it is reported that the absolute bioavailability (F) of atorvastatin is 12% after a 40 mg oral dose. It is the present study, an attempt was made to enhance the solubility and dissolution characteristics of a poorly soluble model drug, atorvastatin calcium (AC) using nanosuspension technology.

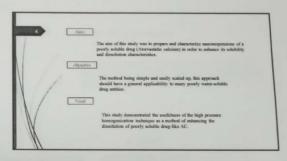
#### MATERIALS AND METHODS

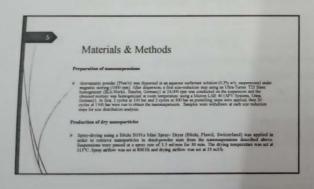
AC was obtained as a gift sample from M/s. Caplin point, Pondicherry, India. Polyvinyl pyrrolidone was a gift sample from M/s. Colorcon, Goa, India. All other chemicals and solvents used are of analytical grade.

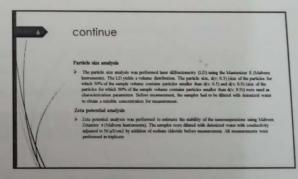










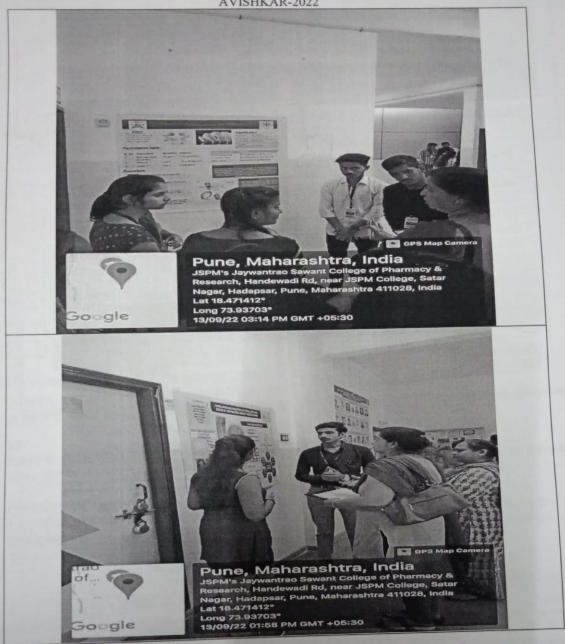


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Poster Presentation Competition

#### JSPM's Jayawantrao Sawant College of Pharmacy & Research, Hadapsar, Pune-411028

AVISHKAR-2022



# General Club Activity GPAT & Nipper

## Jayawantrao Sawant College of Pharmacy and Research, Hadapsar, Pune-411028

Title of Activity: Orientation cum training webinar on "How to Prepare for GPAT/NIPER

- Date, venue& time: Wednesday, 08/02/2023 from 10.00 a.m. to 12:00 p.m. offline mode
- 2. Outcome of activity: It was an orientation cum training session for the aspirants of TY and Final Year BPH 2022-23 who are taking national level competitive exams GPAT and NIPER,
- 3. Description of activity: As an initiative to enhance placement of students for higher education through national level competitive exams, the Training Placement Cell and Competitive Examinations Cell of the College, organized one day orientation cum training programme "Competitive Exams as Career options: special focus on GPAT/NIPER" on 8th February 2023. Prof.Dr.Mohanrao Addi, Director of APEX Academy of Aspirants of GPAT/ NIPER, Bhajirao Road, Swarget, Pune delivered a highly informative and impactful session citing key aspects of both the entrance examinations . Prof.Dr.Mohanrao Addi gave a complete know how of the procedures, for taking these exams, tips for greater success and methods for preparation for these examinations. Mr.S.N.Gaikwad introduced Prof.Dr.Mohanrao Addi on behalf of the management.
- 4. Activity Experience: More than 70 participants from college attended the webinar. All participants noted the key points about the techniques of exams, practices tests and study planning. Moreover, got their doubts cleared. Prof.Dr.Mohanrao Addi engaged students in the interactive sessions, elaborated many success stories under his tutelage. Students appreciated "short method tricks" for clearing exam.
- 5. Assessment of activity outcomes: The students got better insight into the challenges and opportunities of career in higher education through the national level competitive exams. 6. Feedback: Formal feedback has been collected.

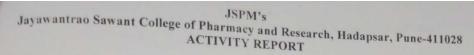
7. Total No. of participants: about 75

Mr. S.N. Gaik wad Co-ordinator

Vapolino Dr Ms V. V. Potnis Principal Principal Jayawantrao Sawant

College of Pharmacy & Research Hadapsar, Pune - 411 028.

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Screenshots of webinar











Launching on

12/02/2023 (SUNDAY)

FACE TO FACE ONLINE BATCHES TIME: TOAM





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## JSPM's Jayawantrao Sawant College of Pharmacy and Research, Hadapsar, Pune-411028 ACTIVITY REPORT

Title of Activity: Orientation cum training webinar on "How to Prepare for GPAT/NIPER competitive examinations"

- 1. Date, venue& time: Thursday, 01/09/2022 from 10.00 a.m. to 12:00 p.m. online mode (ZOOM link)
- Outcome of activity: It was an orientation cum training session for the aspirants of Final Year BPH 2022-223 who are taking national level competitive exams GPAT and NIPER, 2022.
- 3. Description of activity: As an initiative to enhance placement of students for higher education through national level competitive exams, the Training Placement Cell and Competitive Examinations Cell of the College, organized one day orientation cum training programme along with Quiz competition activity entitled "Competitive Exams as Career options: special focus on GPAT/NIPER" on 1st September 2022. Mr.Dharmesh Mehta, Director of Pharmaelite Academy of Aspirants of NIPER/GPAT, Thane delivered a highly informative and impactful session citing key aspects of both the entrance examinations. It was collaborative activity between JSPM's JSCOPR, Hdapsar, Pune. Mr.Dharmesh Mehta gave a complete know how of the procedures, for taking these exams, tips for greater success and methods for preparation for these examinations. Mr.S.N.Gaikwad introduced Mr.Dharmesh Mehta on behalf of the management.
- 4. Activity Experience: More than 40 participants of colleges attended the webinar. All participants noted the key points about the techniques of exams, practices tests and study planning. Moreover, got their doubts cleared. Mr.Dharmesh Mehta Director of Pharmaelite engaged students in the interactive sessions, elaborated many success stories under his guidance. Students appreciated "short method tricks" for clearing exam.
- 5. Assessment of activity outcomes: The students got better options into the challenges and opportunities of career in higher education through the national level competitive exams.

6. Feedback: Formal feedback has been collected...

7. Total No. of participants: about 43

Mr. S.N.Gaikwad

Dr Ms V. V. Potnis

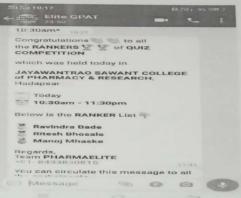
Principal Jayawallfibadawant College of Pharmacy & Research Hadapsar, Pune - 411 028.

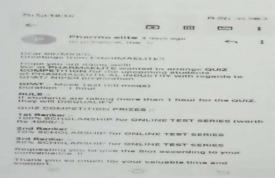
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#### JSPM's Jayawantrao Sawant College of Pharmacy and Research, Hadapsar, Pune-411028 ACTIVITY REPORT

#### Screenshots of webinar









Principal

Jayawantrao Sawant

Jayawantrao Sawant

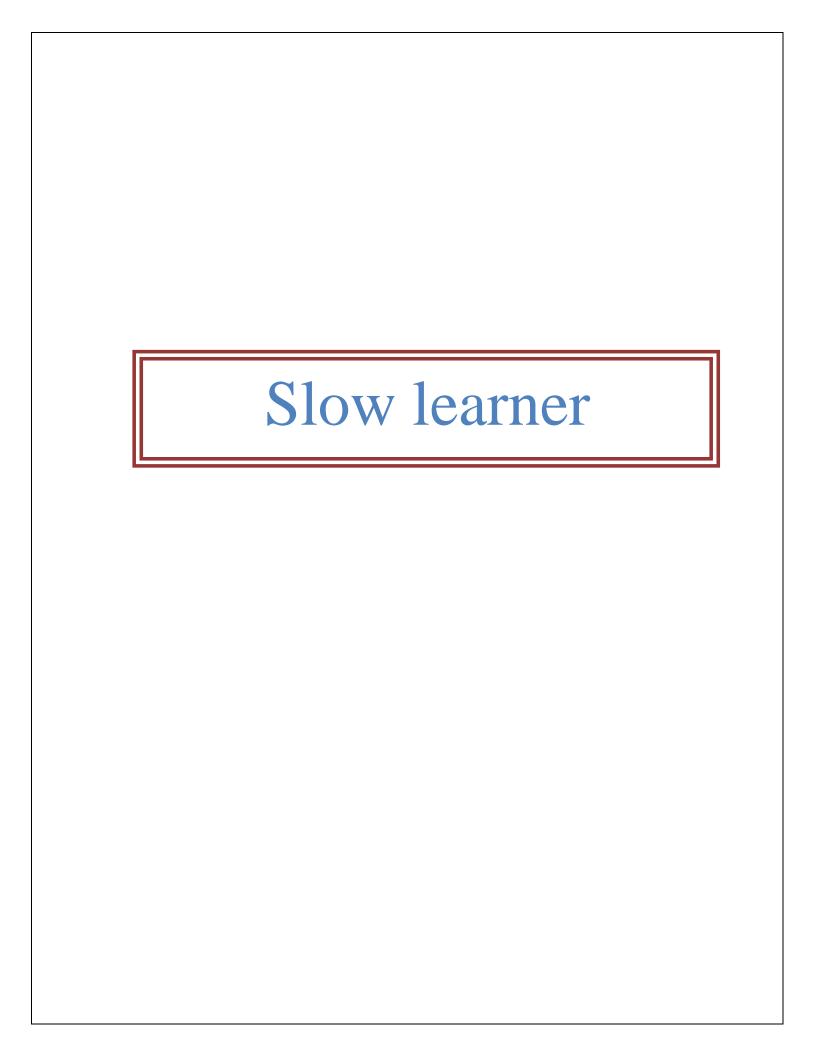
College of Pharmacy & Research

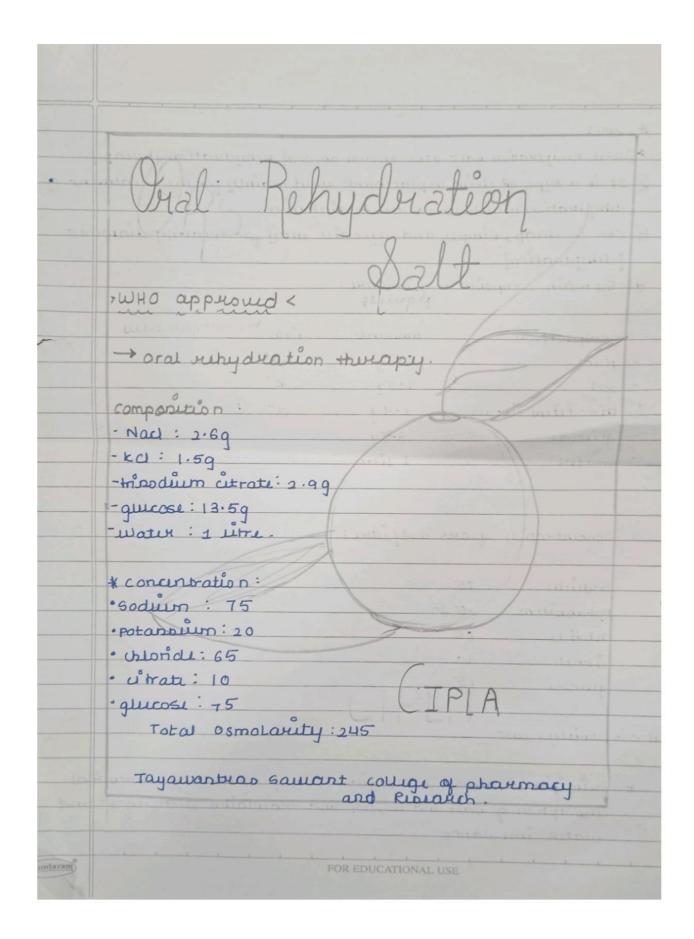
Hadapsar, Pune 411 028. Page 2 of 3

## JSPM's Jayawantrao Sawant College of Pharmacy and Research, Hadapsar, Pune-411028 ACTIVITY REPORT



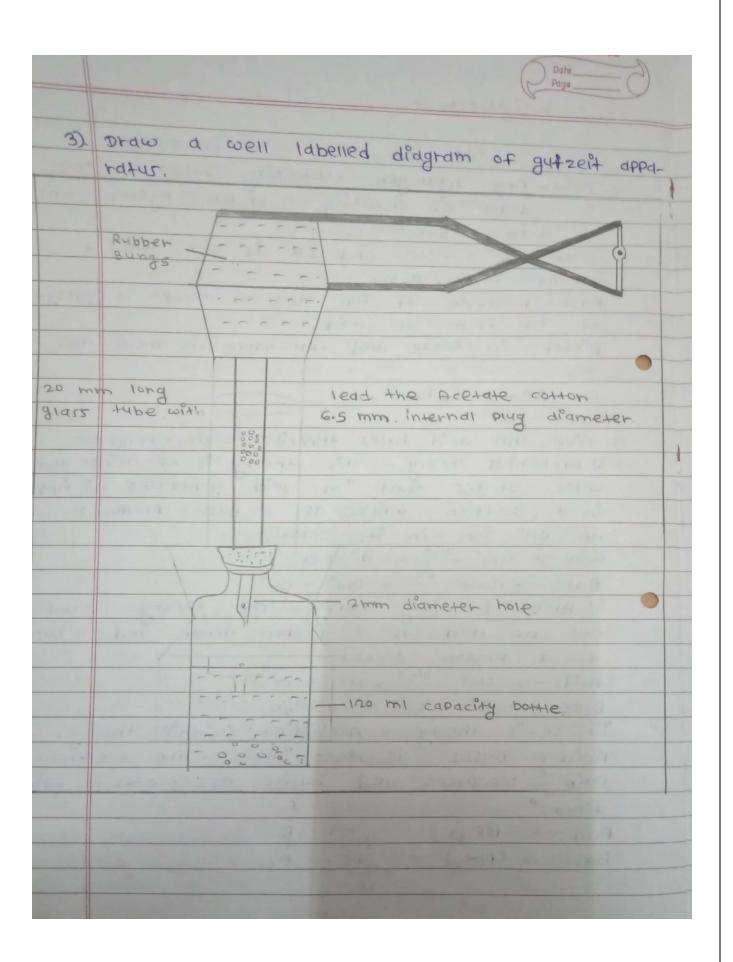
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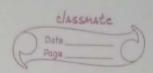




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				used mainly for the treatment								
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	Assignment - 1.								
1).	Define doids and bases with examples.								
$\rightarrow$	Acid - Any hydrogen · containing substance that								
	is capable of donating a proton ( hydrogen ion).								
	to another substance.								
	sout in sitaste and PH is less than 7.								
	Eseample - Hol, H2504.								
	Base-molecule of ion able to accept a hydrog-								
	en ion from an acid.								
0	Bitter in taste and PH value is more than								
	一								
	Ezeampie - KOH, NaoH.								
2).	Give the dold bases theories with examples.								
<i>→</i> .	i). Arrhehius theory - This theory is of acids and bases states that "an acid generates Ht ions								
	bases states that "an acid generates Ht ions								
	in a solution where as a base produces								
	dh oh ion in its solution.								
	Acid > HCI H20. > H+ + CI"								
0	BUSE -> NOOH HOO. > NOT + QH								
	ii). Bronsted - lowry theory - This theory is deti-								
	i liotali dollar and a han								
	as a Proton acceptant								
	Acid -> HCI H20.> H+ + CI								
	Base -> H+ + OH> H o								
	iii) Lewis theory - According to this theory								
	Acid. 8 bases describer "acids are electron- Pair acceptors and bases as electron-Pair								
	Pair acceptors and bases as acceptors								
	donats"								
	Acid -> (BFO) -> r								
	Base -> (DH3) -> H-N F.								
	H.								





A) give the principle. 2 reaction of arsenic. ->. All arsenic presented into desenic gds (ASH) by reaction with zinc & hydrochioric acid Base on reaction of arsenic gar with hydrogen ion to form yellow stain on mercy ic chloride, Paper in of reducing agent. like Potassium Podide. Reaction -Impurity. Arsenic acid. H3 ASO4. -> H3 A3 O3. CArsenic (Arsenic doid). acid). H3 A503 + 3H2 ---> A5H3 + 3H20. (Atsenic acid). (Atsenic gas). 2 ASH3 + Hgcl2 -> Hg CASH2)2 + Hcl. (Arsenic Comercutic (yellow stain). gas). chloride). 5). Give the Principle of chloride. -> The chioride ions to is most common imp unity disenic due to use of tap water during manyfacturing process. It is bared upon the chemical reduction between silver hitrates and soluble in presence of dilute nittate acid to give apolescence of silver chloride.