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The Jamner Taluka Education Society's

**SHREE SURESHDADA JAIN INSTITUTE OF PHARMACEUTICAL
EDUCATION & RESEARCH, JAMNER, -424206 DIST- JALGAON (M.S.)**

- Approved by PCI, New Delhi & DTE, Mumbai
- Affiliated to K.B.C. N.M.U., Jalgaon
- Courses available :- B.Pharmacy & M. Pharmacy (Pharmaceutics)

Ph. : (02580)233478 Fax (02580)233478,

Website. : www.ssjiiper.com Email :- ssjiiper_jamner@rediffmail.com

Problem solving methodology:

Academic Year 2019-20

| Sr. No. | Title | Page No. |
|---------|----------------------------------|---|
| 1. | Assignments/ Tutorials | 2 |
| 2. | Under Graduate Projects | NA Due To CGPA Pattern Project Carried Out In T.Y. B.Pharm .(2018-19) |
| 3. | Post Graduate Projects | 9 |
| 4. | Workshop /Webinar/Guest lecture. | 10 |
| 5. | Environment Project | 13 |



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Internal Seminar Summary (Continuous mode)

Academic Year:2019-20

| NAME OF SUBJECT | SUBJECT CODE | TOPIC FOR ASSIGNMENT |
|--------------------------------------|--------------|--|
| Human Anatomy and Physiology I | BP101T | Write a note on renin angiotensin aldosterone system. |
| Pharmaceutical Analysis-I | BP102T | Write a note on Mohrs method. |
| Pharmaceutics I | BP103T | Define Suppository and explain Method of Preparation of Suppositories. |
| Pharmaceutical Inorganic Chemistry | BP104T | Write a short note on buffer solution. |
| Communication skills | BP105T | Elaborate advantages and disadvantages of interviews. |
| Human Anatomy and Physiology II | BP201T | Enlist different organs of male and female reproductive system with diagram. |
| Pharmaceutical Organic Chemistry-I | BP202T | Difference between SN1 and SN2 reaction. |
| Biochemistry | BP203T | Write a note on DNA replication |
| Pathophysiology | BP204T | Write a note on Diabetes. |
| Computer Applications in Pharmacy | BP205T | Explain Electronic Prescribing System. |
| Pharmaceutical Organic Chemistry II | BP301T | Explain acidic nature of aromatic acid |
| Physical Pharmaceutics I | BP302T | Define surfactant classify in details. |
| Pharmaceutical Microbiology | BP303T | Write a note on GRAM staining. |
| Pharmaceutical Engineering | BP304T | Explain principle construction and working of FBD |
| Pharmaceutical Organic Chemistry III | BP401T | Define acridine and explain its chemical reaction. |
| Medicinal Chemistry I | BP402T | Give SAR of anticonvulsants. |
| Physical Pharmaceutics II | BP403T | What is accelerated stability and give its objective. |
| Pharmacology I | BP404T | Explain in detail factor affecting drug absorption. |
| Pharmacognosy and Phytochemistry I | BP405T | Explain Plant tissue culture in pharmacognosy |
| Medicinal Chemistry II | BP501T | Classify local anaesthetics. write note on PABA. |
| Industrial Pharmacy-I | BP502T | Write a note on film coating. |



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| | | |
|---------------------------------------|--------|---|
| Pharmacology II | BP503T | Write the synthesis and release of thyroid hormone. |
| Pharmacognosy and Phytochemistry II | BP504T | Explain estimation & utilization of Caffeine. |
| Pharmaceutical Jurisprudence | BP505T | MCQ related to subjects |
| Medicinal Chemistry III | BP601T | Give synthesis of- A) Ciprofloxacin B) Acyclovir C) Miconazole |
| Pharmacology III | BP602T | Explain Barbiturate poisoning. |
| Herbal Drug Technology | BP603T | MCQ |
| Biopharmaceutics and Pharmacokinetics | BP604T | Explain Phase-I & Phase-II reactions |
| Pharmaceutical Biotechnology | BP605T | write a note on PCR |
| Quality Assurance | BP606T | MCQ related to subject. |



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NAME - Jadhav Nikita S.
 CLASS - F.Y.B.Pharm (Sem-I)
 Year - A.Y. 2019-20
 Subject - Pharmaceutical Inorganic chemistry (BP104T)

1. Write a short note on buffer solution.
 The solution which have the ability to resist the a change in pH.
 There are three type of buffer solution.

1) Acidic
 It's define as mixture of weak acid and their salt formation (eg :- $\text{CH}_3\text{COOH} + \text{CH}_3\text{COONa}$).

2) Basic
 It's define as mixture of weak base and their salt formation (eg :- $\text{NH}_4\text{OH} + \text{NH}_4\text{Cl}$)

- Buffer action.
 It's define as property of buffer solution to resist change in pH value even when small a amount of acid base is added.

- Henderson hasselbalch equation
 determine the pH of Buffer solution of non-concentrated

$$\text{pH} = \text{pKa} + \log \left[\frac{\text{salt}}{\text{acid}} \right], \text{pOH} = \text{pKb} + \log \left[\frac{\text{salt}}{\text{base}} \right]$$

- Hydrogen Ion concentration
 $1 \times 10^{-14} = [\text{H}^+][\text{OH}^-]$
 $[\text{H}^+] = [\text{OH}^-] = 1 \times 10^{-7}$

- Factor affecting pH of buffer solution
 - Temperature Increase cause alteration of Buffer solⁿ
 - Addition of Neutral salt
 - Dilution of water

- Important of buffer solution

- ① Biological process
- ② Industrial process
- ③ Analytical process
- ④ Bacteriological process

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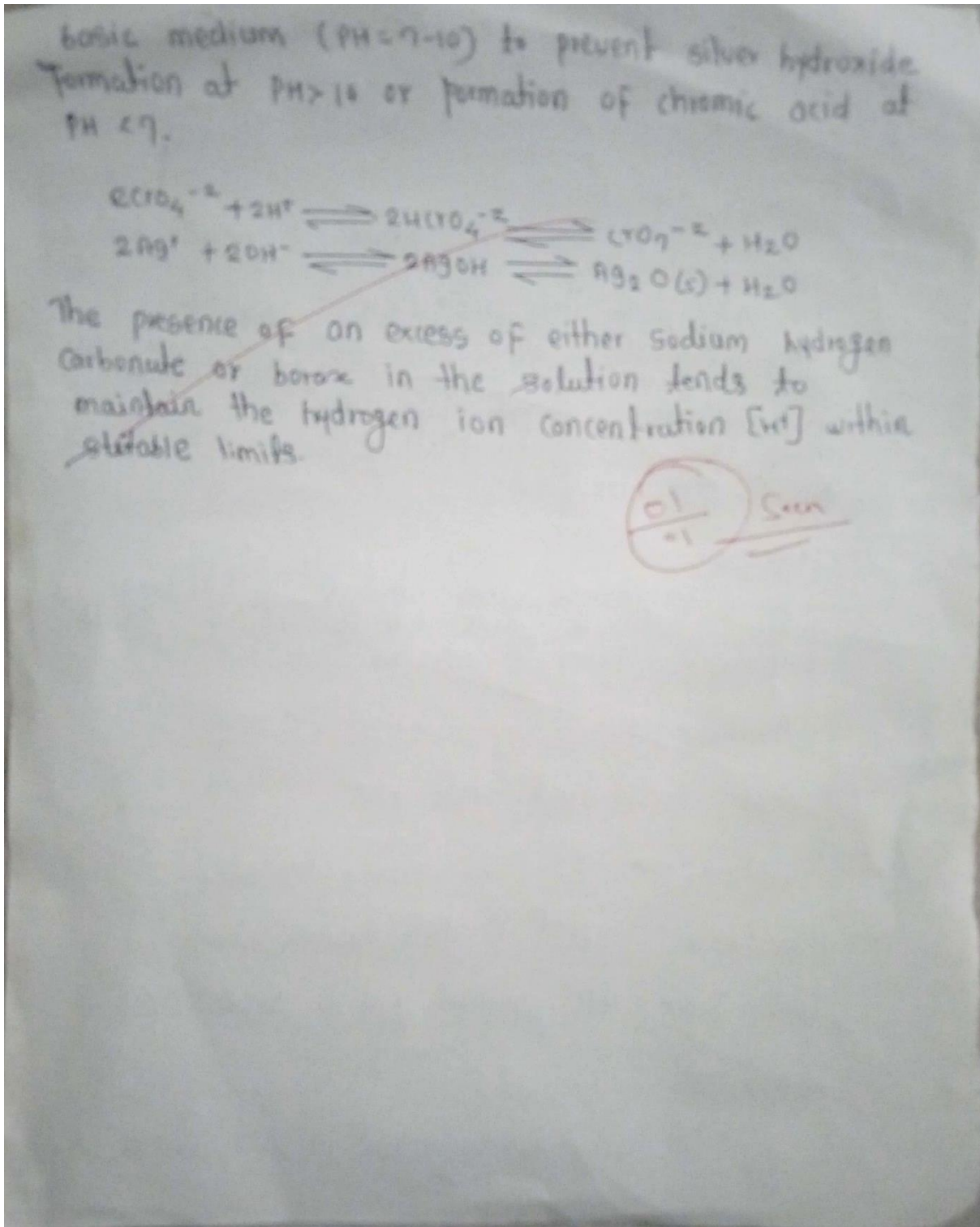
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Name - Bari Nitin S. Class - F.Y.B.Pharm (I Sem)

Subject - Pharmaceutical Analysis - I (BP102T)

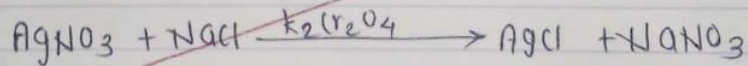
Q Write a note on Mohr's method.

A → Mohr's Method

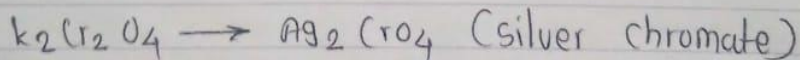
It is direct titration method in which halide ions directly titration with precipitating agent. At the end point the precipitating reagent react with the end point the indicator ion to form a colour precipitate. The concentration of an indicator is precipitate. The so chosen that is starts precipitating only after whole analyte has precipitated.

Principle :

It involves the titration of Sodium chloride with a silver nitrate using dilute potassium chromate as an indicator.



AgCl is a first white ppt



Ag₂CrO₄ is IInd reddish brown colour

End point this method reddish brown colour

Limitations :

1. The titration is performed in natural or slightly



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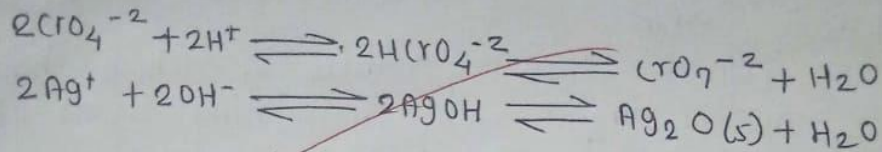
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basic medium (PH=7-10) to prevent silver hydroxide formation at PH>10 or formation of chromic acid at PH < 7.



The presence of an excess of either sodium hydrogen carbonate or borax in the solution tends to maintain the hydrogen ion concentration [H⁺] within suitable limits.

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Academic Year : 2019-20
Human Anatomy & Physiology I
Class & Semester : F. Y. B Pharm (1st Sem) Subject : B.P101T CONTINUOUS MODE

| Roll No. | THEORY | | | | | | | | | |
|----------|----------------|----|-------|---------------|---------------------|-------------------|------------------------------|--------------------------------------|-------------------|---------------|
| | SESSIONAL EXAM | | | | | Attendance (4/2M) | Academic Activities (3/1.5M) | Student Teacher Interaction (3/1.5M) | Total (10/5 M)(B) | A+B (25/15 M) |
| | I | II | TOTAL | Average (30M) | Out of (15/10M) (A) | | | | | |
| 1 | 15 | 18 | 33 | 17 | 09 | 00 | 03 | 02 | 05 | 14 |
| 2 | 18 | 20 | 38 | 19 | 10 | 01 | 03 | 03 | 07 | 17 |
| 3 | 15 | 19 | 34 | 17 | 09 | 04 | 03 | 03 | 10 | 19 |
| 4 | 15 | 20 | 35 | 18 | 09 | 00 | 03 | 02 | 05 | 14 |
| 5 | 22 | 19 | 41 | 21 | 11 | 02 | 03 | 03 | 08 | 19 |
| 6 | 16 | 20 | 36 | 18 | 09 | 04 | 03 | 03 | 10 | 19 |
| 7 | 12 | 17 | 29 | 15 | 08 | 04 | 03 | 03 | 10 | 18 |
| 8 | 18 | 19 | 37 | 19 | 10 | 04 | 03 | 03 | 10 | 20 |
| 9 | 24 | 22 | 46 | 23 | 12 | 00 | 03 | 02 | 05 | 17 |
| 10 | 22 | 24 | 46 | 23 | 12 | 03 | 03 | 03 | 09 | 21 |
| 11 | 20 | 20 | 40 | 20 | 10 | 03 | 03 | 03 | 09 | 19 |
| 12 | 23 | 24 | 47 | 24 | 12 | 04 | 03 | 03 | 10 | 22 |
| 13 | 19 | 24 | 43 | 22 | 11 | 03 | 03 | 03 | 09 | 20 |
| 14 | 17 | 17 | 34 | 17 | 09 | 04 | 03 | 03 | 10 | 19 |
| 15 | 22 | 25 | 47 | 24 | 12 | 00 | 03 | 02 | 05 | 17 |
| 16 | 19 | 23 | 42 | 21 | 11 | 04 | 03 | 03 | 10 | 21 |
| 17 | 23 | 24 | 47 | 24 | 12 | 03 | 03 | 02 | 08 | 20 |
| 18 | 17 | 23 | 40 | 20 | 10 | 03 | 03 | 02 | 08 | 18 |
| 19 | 20 | 22 | 42 | 21 | 11 | 02 | 03 | 02 | 07 | 18 |
| 20 | 21 | 21 | 42 | 21 | 11 | 04 | 03 | 03 | 10 | 21 |
| 21 | 08 | 18 | 26 | 13 | 07 | 00 | 03 | 02 | 05 | 12 |
| 22 | 24 | 23 | 47 | 24 | 12 | 04 | 03 | 03 | 10 | 22 |
| 23 | 14 | 19 | 33 | 17 | 09 | 04 | 03 | 03 | 10 | 19 |
| 24 | 09 | 18 | 09 | 05 | 03 | 00 | 03 | 02 | 05 | 09 |
| 25 | 22 | 21 | 43 | 22 | 11 | 03 | 03 | 03 | 09 | 20 |
| 26 | 22 | 19 | 41 | 21 | 11 | 04 | 03 | 03 | 10 | 21 |
| 27 | 14 | 22 | 36 | 18 | 09 | 04 | 03 | 03 | 10 | 19 |
| 28 | 14 | 19 | 33 | 17 | 09 | 00 | 03 | 02 | 05 | 14 |
| 29 | 20 | 19 | 39 | 20 | 10 | 04 | 03 | 02 | 09 | 19 |
| 30 | 19 | 23 | 42 | 21 | 11 | 04 | 03 | 02 | 09 | 20 |



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LIST OF RESEARCH/REVIEW PROJECT WITH GUIDE NAME

(M. PHARM-II)

ACADEMIC YEAR:2019-20

| Sr. No. | Name of Student | Title of Thesis | Guide Name |
|---------|-------------------------|---|----------------|
| 1 | Korde Vrushali Ashok | Formulation Optimization and Evaluation of Gastro-retentive Effervescent Floating Tablet of Quetiapine Fumarate | Mr.M.M.Bari |
| 2 | Jadhav Ravina Ghanshyam | Formulation Optimization and Evaluation of Teste Masked Chewable Tablet of Fexofenadine Hydrochloride | Dr.S.D.Barhate |
| 3 | Patil Pranita Padmakar | Formulation and Evaluation of Floating Microbeads of Pregabalin | Dr.S.D.Barhate |
| 4 | Patil Punam Shankar | Formulation Optimization and Evaluation of Fast Disintegrating Effervescent Tablet of Pantoprazole Sodium | Dr.S.D.Barhate |
| 5 | Patil Swati Prakash | Formulation Optimization and Evaluation of Test Masked Oro-Dispersible Tablet of Levocentrizine Dihydrochloride by Using Ion Exchange Resin | Mr.M.M.Bari |
| 6 | Ubhale Ravindra Jagdish | Formulation Optimization and Evaluation of Push Pull Osmotic Pump Tablet of Vildagliptin | Mr.M.M.Bari |



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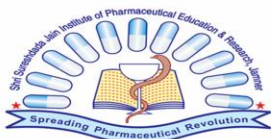
2.3.4 Activity report of workshop/ seminar activity held in 2019-20

| Sr.no. | Name of activity | Date & place of activity | Resource Person | Co-ordinators |
|--------|---|---|--|--|
| 1 | One day workshop on academic research project conducted by SHODH Advantech Aurangabad | 7/10/2019 SSJIPER, Jamner. Dist- Jalgaon. | Prof. Maitreys Mudkavi | Prof. S.M. Sarode. Prof. M.M. Bari Prof. Y.M. Bagad Prof. S.J. Tadvi |
| 2 | One day workshop on competitive exam preparation | 14/02/2020 SSJIPER, Jamner. Dist- Jalgaon. | Sunil Deshmukh (Unique Academy, Jalgaon) | Prof. S.M. Sarode Prof. J.P. Khatik Prof. S.J. Tadvi |
| 3 | One day seminar on presentation for competitive exam career guidance | 14/03/2020 SSJIPER, Jamner. Dist- Jalgaon | Sunil Deshmukh (Unique Academy, Jalgaon) | Prof. Y.M. Bagad Prof. S.M. Sarode. |



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Research Methodology topic Conducted by Prof Maitrey Mudkavi on 07/10/2019



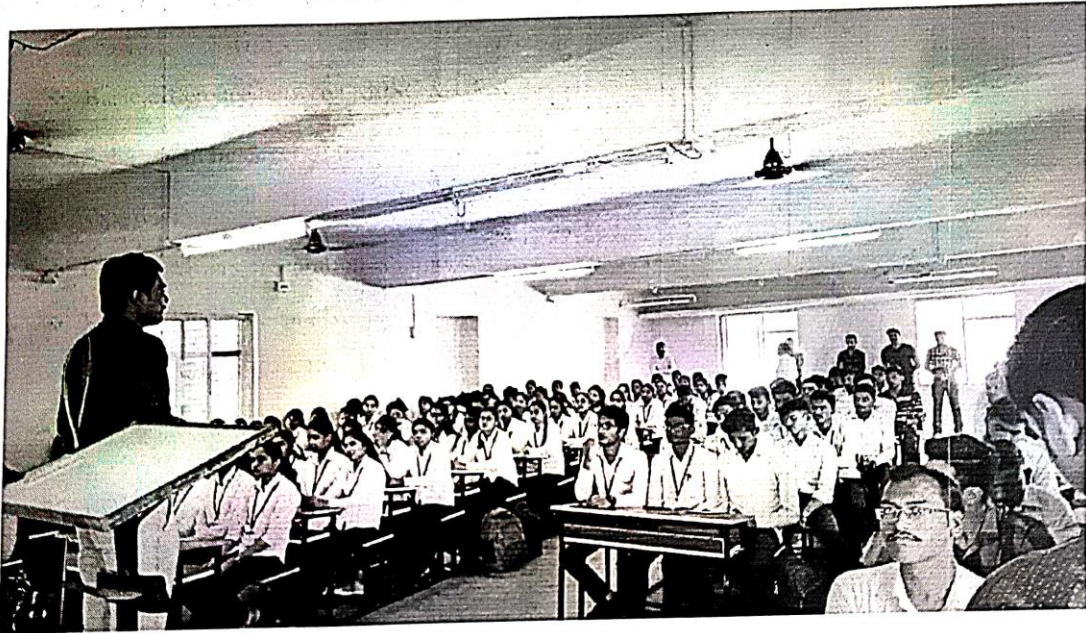
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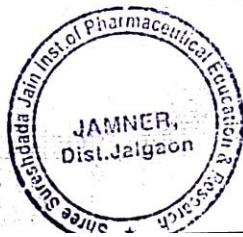
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- ❖ Basic difference between MPSC & UPSC
- ❖ Syllabus to be covered for MPSC & UPSC
- ❖ Tips regarding how to face these exams
- ❖ Current Affairs preparation is important.
- ❖ NCERT books are an essential resource.
- ❖ Standard reference books such as Laxmikanth's Polity, Bipin Chandra for History etc.
- ❖ How to go through answers in previous years' MPSC & UPSC question papers etc.



One Day Workshop On Competitive Exam Preparation Prof. Sunil Deshmukh, Unique Academy Jalgaon on 14/02/2020



2



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Environmental Project

Academic Year:2019-20

Class-F. Y. B. Pharm (Sem-II)

(Some available data due to corona)

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<https://acrobat.adobe.com/id/urn:aaid:sc:AP:29add966-2367-4cf1-9365-55e7011365e3>

<https://acrobat.adobe.com/id/urn:aaid:sc:AP:0c17e26a-256b-44fd-8b6e-d46aa7b8ea3e>

<https://acrobat.adobe.com/id/urn:aaid:sc:AP:29add966-2367-4cf1-9365-55e7011365e3>



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Page No. 1 Date : 3

DESERT ECOSYSTEM

Made by : Nikita Setu Tadhav
F.Y. B. Pharm

Guided by : Mr. Piyush S. Mahajan

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_____ has satisfactory completed the course by
study as laid down by Kavayitri Bahinabai Chaudhari North Maharashtra
University, Jalgaon for study tour project report in the subject of
ENVIRONMENTAL SCIENCE of First year
B.Pharmacy IInd Semester of the academic year
2019-20 This project report represents the work done
by him/ her.

Subject In-Charge
Mr. Piyush S. Mahajan

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Page No. 4 Date :

AQUATIC ECOSYSTEM

-: Introduction :-

Aquatic ecosystem contribute to a large proportion of a large planet's biotic productivity as about 30% of the world's primary productivity. Comes from plants living in the ocean. These ecosystem also include wetland located at lake, stores, river banks, the ocean shoreline and any habitate where the soil or vegetation is submerge for suce duration, when compared to terrestrial commities, aquatic commities are limited abiotically in several different ways.

- organisms in aquatic system servire partial to total submergence. water submergence has an effect on the availability at atmospheric oxygen which is required for the respiration and solar radiation, which is needed in photosynthesis.
- some organisms in aquatic system have to all deal with dissolved salts in their intermediate environment. This condition has caused these forms of line to develop physiological adaptation to deal with this problem.
- Aquatic ecosystem are nutritionally limited by phosphorous and iron rather than nitrogen

6



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Page No. _____ Date: _____

Page No. 2. Date : _____

3

SUB NAME
- ENVIRONMENTAL STUDIES

MADE BY :-
- DIVYA ANIL KUMAVAT

CLASS :-
- F.Y. B. PHARM

GUIDED BY :-
- PIYUSH MAHAJAN SIR

ROLL NO :-
22



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This is to Certify that Mr./Miss. /Mrs. Divya Anil
kumavat has satisfactory completed the course by
study as laid down by Kavayitri Bahinabai Chaudhari North Maharashtra
University, Jalgaon for study tour project report in the subject of
ENVIRONMENTAL SCIENCE of F.Y
B.Pharmacy IInd Semester of the academic year
2019-20 This project report represents the work done
by ~~him~~/ her.

Subject In-Charge

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 ENVIRONMENTAL SCIENCE of First Year
 B.Pharmacy IInd Semester of the academic year
2019-2020. This project report represents the work done
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Subject In-Charge

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