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Summary of the Cover Page,
Content Page & First
Page of the Publication
Indicating ISBN Number and Year
of Publication for Books, Chapters
& Conference Proceeding

ACADMIC YEAR 2017-2018

BOOK PUBLICATIONS

Sr no	Name of the teacher	Title of the book/chapters published	Year of publication	ISBN number of the proceeding	Name of the publisher
1	Dr. N.S. Vyawahare	Remedial Biology (Book & Question Answer format)	2018	978-93-332-1853-5	Technical Publications
2	Dr. D. S. Shirode	Remedial Biology (Book & Question Answer format)	2018	978-93-332-1853-5	Technical Publications
3	Dr A.V Kulkarni	Remedial Biology (Book & Question Answer format)	2018	978-93-332-1853-5	Technical Publications
4	Priyatama Powar	Pharmaceutical microbiology (1 Edition)	2018	978-93-332-1912-9	Technical Publications
5	Dr. S.P.Chaudhari	Biopharmaceutics and Pharmacokinetics, As per Rajiv Gandhi Proudयोगiki Vishwavidyalaya ,Bhopaland PCI syllabus	2018	978-93-87656-31-4	Tech-Max Publications, Pune
6	Dr. P. M. Chaudhari	Biopharmaceutics and Pharmacokinetics, As per Rajiv Gandhi Proudयोगiki Vishwavidyalaya ,Bhopaland PCI syllabus	2018	978-93-87656-31-4	Tech-Max Publications, Pune
7	Dr. P. M. Chaudhari	Communication Skills	2018	978-93-88314-11-4	Tech-Max Publications, Pune
8	Dr. S. P. Mahaparale	Practical Handbook of Pharmaceutical InorganicChemistry	2017	978-93-24457-10-6	Success Publishers, Pune
9	Dr. S.P.Chaudhari	Pharmaceutics -I as per Pharmacy Council of IndiaSyllabus	2017	978-93-87093-02-7	Thakur Publishers, Lucknow
10	Dr. S.P.Chaudhari	Practical Handbook of Pharmaceutical Microbiologyand immunology for S Y B.Pharm	2017	978-93-24457-0-3	Success Publishers,Pune
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12	Dr. P M Chaudhari	Biopharmaceutics and Pharmacokinetics	2017	978-93-5077-563-9	Tech-Max Publications, Pune
13	Dr. P. M. Chaudhari	Communication Skills	2017	978-93-86742-80-3	Tech-Max Publications, Pune



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CONFERENCE PROCEEDING

Sr. No.	Name of the teacher	Title of proceedings of the conferences	Name of the conference	National / International	Year of publication
1	Dr. A.V. Kulkarni	Development of RP-HPLC method for estimation of Xylometazoline HCl and Ipratropium Bromide in Nasal Solution	SYNAPSE-One Day State Level Research Presentation Competition organised by AISSMS COP Pune	State	2018
2	Dr. S W Jadhav	New Development in Drug Discovery from Natural Products & Traditional Medicines	6 th International Conferences on New Development in Drug Discovery from Natural Products & Traditional Medicines	International	2018
3	Mr. M. T. Mohite	In silico dellan, baie catalysed synthesis of 2-chloro-syntheeft of 2-chloro-Fluro 1-am Phecharachi	SYNAPSE-One Day State Level Research Presentation Competition organised by AISSMS COP Pune	State	2018
4	Dr. V Vaidya	Formulation, Development and Evaluation of Hair Growth Stimulating Herbal Gel	5 METRXPLORE 2020	National	2018
5	Dr. P. M. Chaudhari	Formulation and optimization of fast disintegrating tablets using ready-to use excipients	Innopharma3 3rd International conference	International	2018
6	Ms P V. Powar	Formulation and evaluation of polyherbal gel based facial peel-off mask: remedial agents for skin bacterial infection	Innopharma3 3rd International conference	International	2018
7	Dr. P. M. Chaudhari	Preclinical evaluation of Indigenous plant for its immunomodulatory effect on Inflammatory Bowel Disease	Innovation-2017 Regional Research Conference organised by SPPU and STESSKNCOP Pune	State	2017
8	Dr. A.V. Kulkarni	Preclinical evaluation of Indigenous plant for its immunomodulatory effect on Inflammatory Bowel Disease	Innovation-2017 Regional Research Conference organised by SPPU and STESSKNCOP Pune	State	2017
9	Dr. R. S Karodi	Preclinical evaluation of Indigenous plant for its immunomodulatory effect on Inflammatory Bowel Disease	Innovation-2017 Regional Research Conference organised by SPPU and STESSKNCOP Pune	State	2017
10	Ms P V. Powar	Preclinical evaluation of Indigenous plant for its immunomodulatory effect on Inflammatory Bowel Disease	Innovation-2017 Regional Research Conference organised by SPPU and STESSKNCOP Pune	State	2017



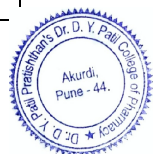
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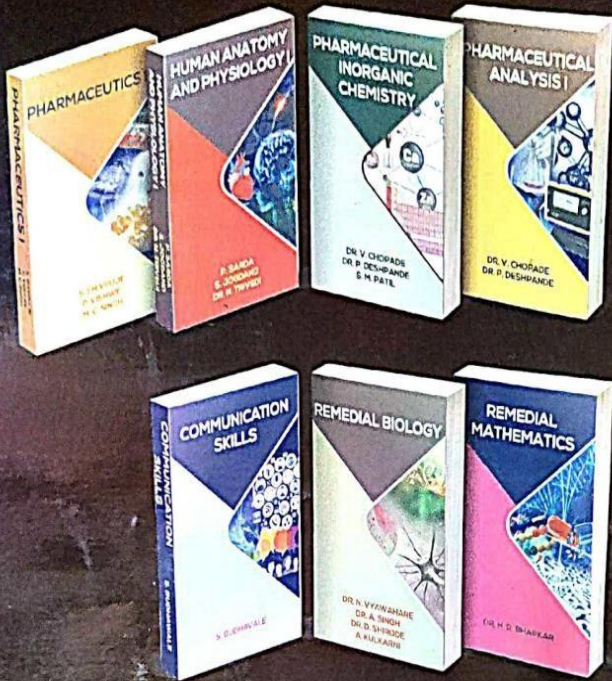
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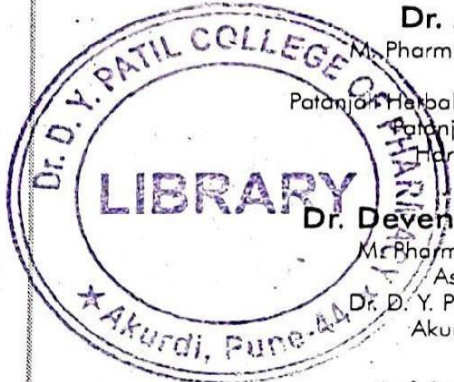
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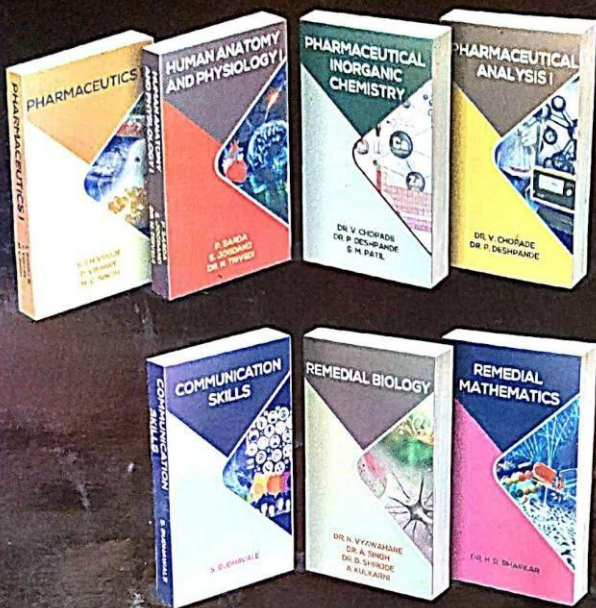
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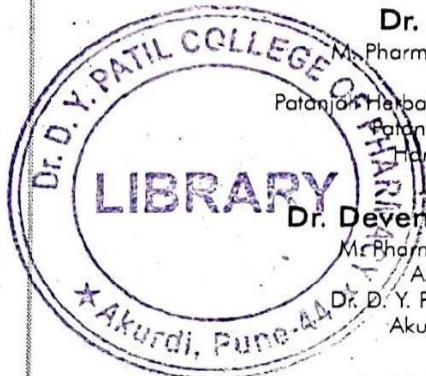
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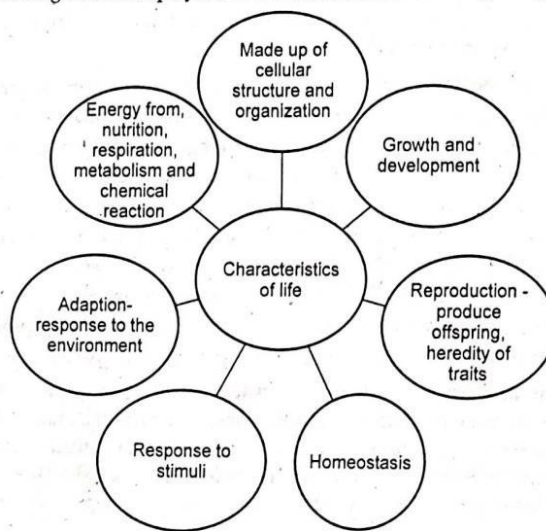
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LIVING WORLD AND MORPHOLOGY OF FLOWERING PLANTS

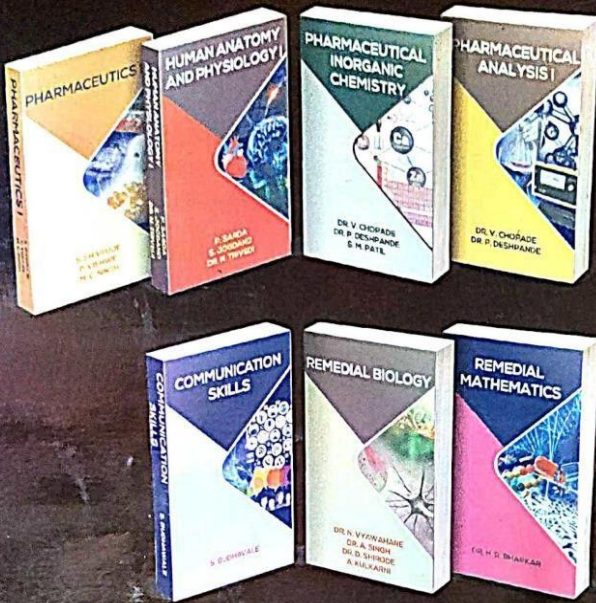
1.1 : Living World

Q.1 What is meant by living ? Give defining features of life.

Ans. : It is very difficult to define 'living'. There are various typical characteristics common to all living thing. These characteristics used to differentiate between 'living' and "non-living thing". An individual living thing, such as an animal or a plant, is called an organism. The term 'living organism' is usually used to describe something which displays all the characteristics of living things.



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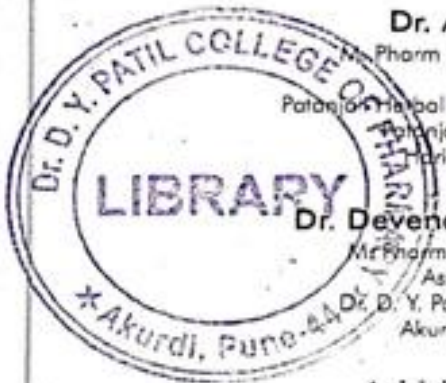
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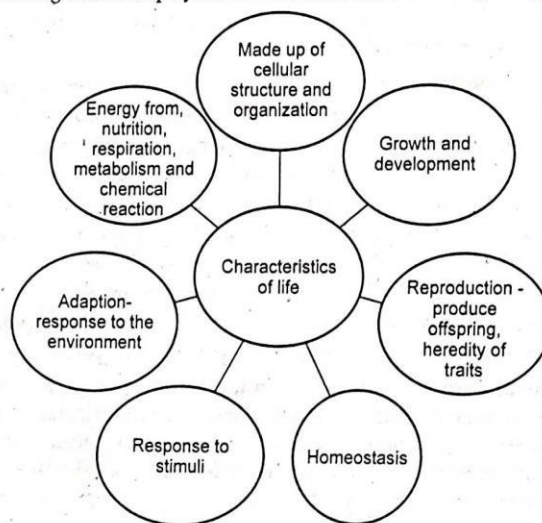
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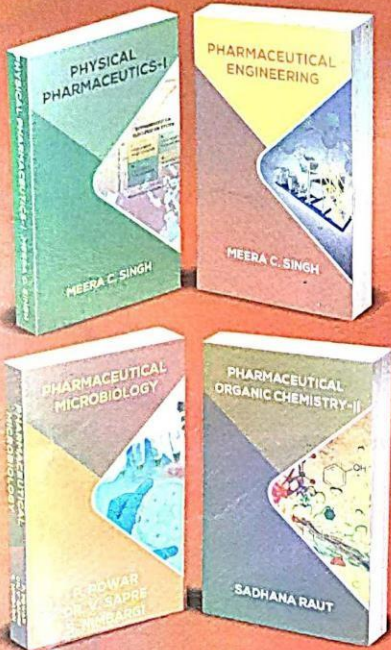
LIVING WORLD AND MORPHOLOGY OF FLOWERING PLANTS

1.1 : Living World

Q.1 What is meant by living ? Give defining features of life.
Ans. : It is very difficult to define 'living'. There are various typical characteristics common to all living thing. These characteristics used to differentiate between 'living' and 'non-living thing". An individual living thing, such as an animal or a plant, is called an organism. The term 'living organism' is usually used to describe something which displays all the characteristics of living things.



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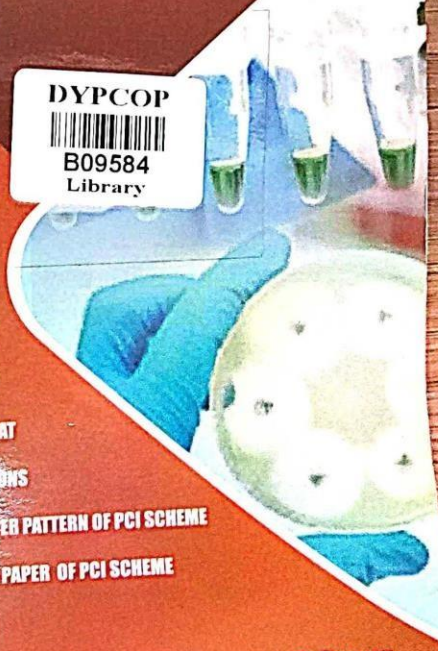


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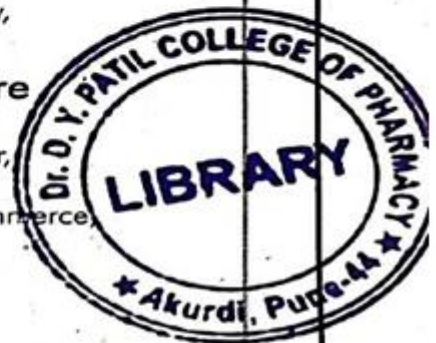
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SYLLABUS

PHARMACEUTICAL MICROBIOLOGY (BP303 T)

Unit I

Introduction, history of microbiology, its branches, scope and its importance.
Introduction to Prokaryotes and Eukaryotes Study of ultra-structure and morphological classification of bacteria, nutritional requirements, raw materials used for culture media and physical parameters for growth, growth curve, isolation and preservation methods for pure cultures, cultivation of anaerobes, quantitative measurement of bacterial growth (total & viable count).
Study of different types of phase contrast microscopy, dark field microscopy and electron microscopy. (Chapter - 1)

Unit II

Identification of bacteria using staining techniques (simple, Gram's & Acid fast staining) and biochemical tests (IMVIC).
Study of principle, procedure, merits, demerits and applications of physical, chemical gaseous, radiation and mechanical method of sterilization.
Evaluation of the efficiency of sterilization methods.
Equipments employed in large scale sterilization.
Sterility indicators. (Chapter - 2)

Unit III

Study of morphology, classification, reproduction/replication and cultivation of Fungi and Viruses.
Classification and mode of action of disinfectants Factors influencing disinfection, antiseptics and their evaluation. For bacteriostatic and bactericidal actions
Evaluation of bactericidal & Bacteriostatic.
Sterility testing of products (solids, liquids, ophthalmic and other sterile products) according to IP, BP and USP. (Chapter - 3)

Unit IV

Designing of aseptic area, laminar flow equipments; study of different sources of contamination in an aseptic area and methods of prevention, clean area classification.

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Principles and methods of different microbiological assay. Methods for standardization of antibiotics, vitamins and amino acids.

Assessment of a new antibiotic. (Chapter - 4)

Unit V

Types of spoilage, factors affecting the microbial spoilage of pharmaceutical products, sources and types of microbial contaminants, assessment of microbial contamination and spoilage.

Preservation of pharmaceutical products using antimicrobial agents, evaluation of microbial stability of formulations.

Growth of animal cells in culture, general procedure for cell culture, Primary, established and transformed cell cultures.

Application of cell cultures in pharmaceutical industry and research. (Chapter - 5)

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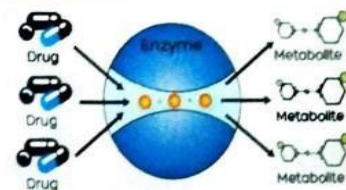
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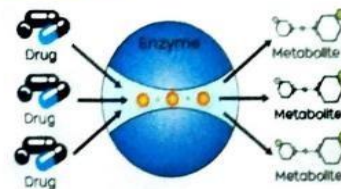
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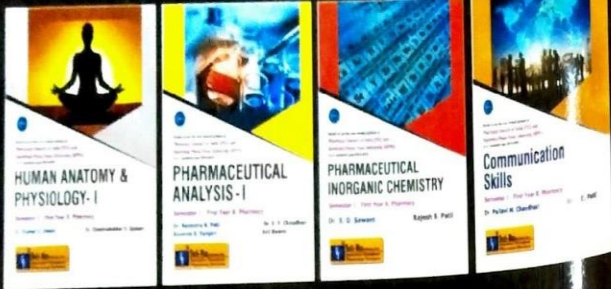


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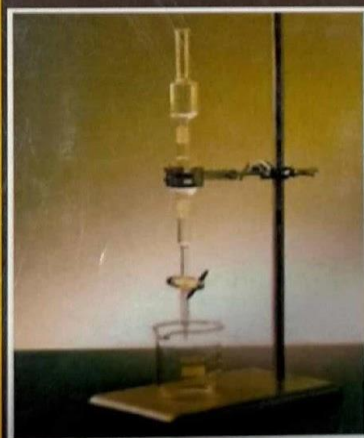
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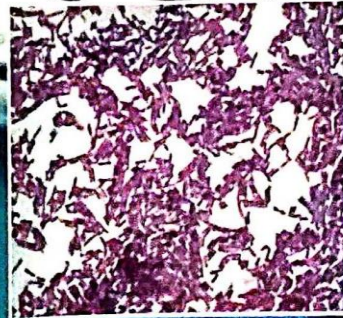
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AND IMMUNOLOGY**

Dr. Satish V. Shirolkar
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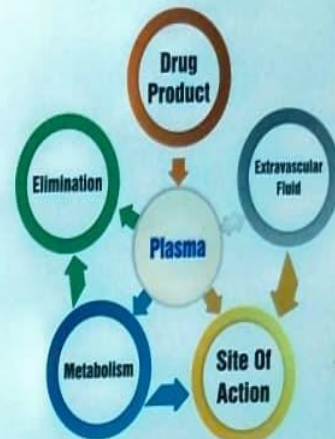
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2	Dr. S W Jadhav	New Development in Drug Discovery from Natural Products & Traditional Medicines	6 th International Conferences on New Development in Drug Discovery from Natural Products & Traditional Medicines	International	2018
3	Mr. M. T. Mohite	In silico dellan, baie catalysed synthesis of 2-chloro-syntheeft of 2-chloro-Fluro 1-am Phecharachi.	SYNAPSE-One Day State Level Research Presentation Competition organised by AISSMS COP Pune	State	2018
4	Dr. V Vaidya	Formulation, Development and Evaluation of Hair Growth Stimulating Herbal Gel	5 METRXPLORE 2020	National	2018
5	Dr. P. M. Chaudhari	Formulation and optimization of fast disintegrating tablets using ready-to use excipients	Innopharma3 3rd International conference	International	2018
6	Ms P V. Powar	Formulation and evaluation of polyherbal gel based facial peel-off mask: remedial agents for skin bacterial infection	Innopharma3 3rd International conference	International	2018
7	Dr. P. M. Chaudhari	Preclinical evaluation of Indigenous plant for its immunomodulatory effect on Inflammatory Bowel Disease	Innovation-2017 Regional Research Conference organised by SPPU and STESSKNCOP Pune	State	2017
8	Dr. A.V. Kulkarni	Preclinical evaluation of Indigenous plant for its immunomodulatory effect on Inflammatory Bowel Disease	Innovation-2017 Regional Research Conference organised by SPPU and STESSKNCOP Pune	State	2017
9	Dr. R. S Karodi	Preclinical evaluation of Indigenous plant for its immunomodulatory effect on Inflammatory Bowel Disease	Innovation-2017 Regional Research Conference organised by SPPU and STESSKNCOP Pune	State	2017
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of

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E. V. NADAR

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Ancient system of medicine mentions that the use of herbal drugs is originated in India around 5000 BCE as an oral tradition. It is becoming more popular and spread in today's time, not only in India, but also in other countries as demand for natural remedies / medicines is increasing day by day. So, there is a belief of people in India that herbal medicines do not cause any adverse effects. But in reality, even the most useful drug can act as a poison if handled carelessly. So, there is a need of attention required for the safety and efficacy of herbal medicines. The present study is related to protection of quality and observing of adverse effects of herbal medicines maintaining the use of

drugs, Adverse drug reactions.

PP-91

Screening of *Lagerstroemia parviflora* Roxb. leaves for antioxidant activity

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Varieties of medicinal plants are spread at a stretch in Western Ghat region of Maharashtra and the phytochemical properties of these plants are not studied thoroughly. One of such plant is *Lagerstroemia parviflora* Roxb. which requires an extensive analysis to identify

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its phytoconstituents and antioxidant potential. This study was carried out to perform the qualitative analysis of phytochemical constituents and quantitative analysis by total phenolics and flavonoids alongwith antioxidant study using DPPH method as per the standard procedures available in the literature. The phytochemical screening showed the presence of glycosides, flavonoids, saponins, phenolics and terpenoids. Quantitative analysis of phenolics and flavonoids indicated that methanolic extract has a total phenolic content of 4.545 mg/100 mg of dried extract and total flavonoidal content of 1.480 mg/100 mg of dried extract which is compared against gallic acid and quercetin respectively. The IC₅₀ value of the methanolic extract was 58.41 µg/ml, as opposed to that of ascorbic acid (IC₅₀ 14.11 µg/mL), which is a well known antioxidant. From the above results it can be concluded that the methanolic extract of the leaves of *Lagerstroemia parviflora* R. possesses potent antioxidant substances which may be responsible for its anti-inflammatory and antidiabetic mechanism.

References: 1. Anjali Soni, Sheetal Sosa (2013) Journal of Pharmacognosy and Phytochemistry, 2 (3), 22-24; 2. C. Shwetha, KP. Latha et al.(2011) JRPC 2011, 1(3), 546-550; 3. F.C. Akharaiyi, B. Bobaye et al.(2012) World Applied Sciences Journal, 16 (4), 523-530; 4. Olajide Olutayo, Idowu Daramola et al.(2011), Am. J. Sci. Ind. Res., 4(3), 324-332; 5. Mosa Elnady Osman, Hanadi Hassan Hassan, et al.(2014) Journal Of Forest Products & Industries, 3(6), 292-295.

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Studies on the effect of hardening and invigouration treatments on ageing of seeds

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¹Department of Botany, Panjab University, Chandigarh

Health benefits of bamboos are enormous including treatment of ulcers, antibacterial properties, anticancerous properties, antioxidants and even in treatment of heart disease and cancer. In bamboos, maintenance of seed viability has been a matter of great concern to mankind during prolonged storage. Assessing the quality of long term stored seeds is costly and time consuming. Ageing studies enable us to understand the possible causes of seed deterioration at fast rate and thus help in formulating counteractive seed treatment and appropriate storage practices. Invigouration treatments improve the seed performance that includes hydration dehydration, incorporation of bioactive chemicals such as growth regulators, nutrients and antioxidants etc. Our studies were aimed to determine the most effective invigouration treatments to enhance vigour and viability of seeds by following invigouration treatments i.e. Hardening. Treated (Pre-storage seeds) were stored at controlled temp. and humidity (in desiccators at 4 Degree Celsius). In hardening, chemicals were applied in 3 different concentrations to three replicates of 10 seeds. Hardening was done with GA, IAA, Albizzia leaf powder, clay and calcium oxychloride (each conc. used is 10ppm, 20 ppm and 50 ppm) . Statistically all the hardening materials were effective but GA, (conc 50 ppm) was most effective in maintaining germination percentage and vigour index. It was observed that the hardening with GA, resulted in max. germination percentage of 88% and vigour index of



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Pharmaceutics

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PH02	Formulation, Development & Evaluation of Prepared Ointment for Treatment of Piles Name of Students: Chandan R Kale, Akshay R.Mule, Akshay B.Shingade, Sneha B.Kharade , Sapana B. Thombare. Guided by : Prof.Pravin B.Cholke, Prof.Yogita S.Temak College Name: Loknete Shri Dadapatil Pharate College of Pharmacy, Shirur, Pune
PH03	Formulation, Development and Evaluation of Hair Growth Stimulating Herbal Gel Akshay Dharmadhikari, Nikhil Dhavale, Dr. Vaibhav Vaidya Dr. D. Y. Patil College of Pharmacy, Akurdi, Pune - 411044
PH04	Preparation And Evaluation Of Herbal Polymeric Nanoparticle and Gel Based Formulations for Enhanced Drug Delivery Murkute Satyajit, Matkar Mukund and Godge G.R Murkute Satyajit Dr.V.V.P.F'S College of Pharmacy, vilad ghat, Ahmednagar-414111
PH05	DEVELOPMENT AND CHARACTERIZATION OF MUCOADHESIVE BUCCAL TABLET Neetu Khatri, Saurbh Chavan, Shinde Shubham, Rushikesh Joshi Dr. D.Y. Patil College of Pharmacy, Akurdi, Pune, 44
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PH07	ALL-IN-ONE SPHERONIZER Rahul Padalkar, Ashutosh Mahamuni and Anish Panwalkar AISSMS College of Pharmacy, Pune
PH08	FORMULATION AND EVALUATION OF THERMOREVERSIBLE IN SITU NASAL GEL OF ZOLMITRIPTAN Pranjali S. Parkhe*, Shahanur M. Momin* and Dr. Shubhangi C. Daswadkar Dr. D. Y. Patil College of Pharmacy, Akurdi, Pune-411044
PH09	FORMULATION AND EVALUATION OF THERMOREVERSIBLE IN SITU NASAL GEL OF ZOLMITRIPTAN Pranjali S. Parkhe*, Shahanur M. Momin* and Dr. Shubhangi C. Daswadkar

PH03

Formulation, Development and Evaluation of Hair Growth Stimulating Herbal Gel

Akshay Dharmadhikari*¹, Nikhil Dhavale*¹, Dr. Vaibhav Vaidya¹

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Abstract

The present work has been undertaken with the aim to formulate hair growth gel formulation containing extracts of *Hibiscus rosa-sinensis* flowers (1.25 %) and of *Ficus benghalensis* (1.25%) aerial roots which are preferably used in alopecia i.e. baldness pattern as an effective herbal therapy. The formulated gel was evaluated for the following parameters such as pH which was found to be 6.5, viscosity 3960 cps, spreadability 17 mm and in-vitro drug diffusion was found to be 67.55% after 1 hour. Quercetin, β -sitosterol, linoleic acid, lupeol, cycloartenol, can be selected as bioactive markers, which are chief constituents of above selected plant for the quantification of the given extracts. Carbopol 940, ethanol, triethanolamine and all other solvents of analytical grade were used to prepare formulations and their evaluations.

Keywords: - *Hibiscus rosa-sinensis*, *Ficus benghalensis*, alopecia, quercetin, β -sitosterol, linoleic acid, lupeol, cycloartenol, carbopol 940, triethanolamine.





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ABSTRACT BOOK



FORMULATION AND OPTIMIZATION OF FAST DISINTEGRATING TABLETS USING READY-TO-USE EXCIPIENTS

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ABSTRACT

Fast disintegrating tablets (FDTs) are current development to present such a dosage form, for those patients who have difficulty in swallowing. FDTs are the products that disintegrate rapidly in the saliva without the need of drinking water. So, the present work was aimed in formulation of fast disintegrating tablets of glipizide by direct compression. A 2^3 factorial design was applied to investigate the effect of two ready-to-use superdisintegrant excipients-Ludiflash and Kollidon-CL on hardness, friability, wetting time, *in vitro* disintegration time, drug release and stability parameters. All the formulations, had disintegration time, based on the concentration of superdisintegrants used. However, at higher concentrations of Ludiflash and Kollidon-CL i.e. about 2 to 5 % of either of them drastically decreased the disintegration time. The hardness of tablets varied between 1.6 ± 1.4 to 3.0 ± 0.12 kg/cm². The percentage friability was found from 0.56 ± 0.20 to $0.95\pm0.11\%$. The percent drug release was in the range 91.80 ± 0.15 to 97.38 ± 0.25 . All the physical parameters of the compressed tablets were within control. Stability studies were carried out at $25^\circ\text{C}/60\%$ RH and $40^\circ\text{C}/75\%$ RH for optimized formulation for 3 mo. Stability studies on the optimized formulation indicated that there was no significant change in physical appearance, disintegration time and drug release of the tablets. So, the study showed the potential of experimental design to understand the superdisintegrants and their appropriate concentration that can be utilized for formulation of fast disintegrating tablets. Thus, Fast disintegrating tablets of glipizide, was successfully formulated.

Keywords: 2^3 Factorial design, Fast disintegrating tablets, Ludiflash®, Kollidon-Cl, Direct compression



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ABSTRACT BOOK



FORMULATION AND EVALUATION OF POLYHERBAL GEL BASED FACIAL PEEL-OFF MASK: REMEDIAL AGENTS FOR SKIN BACTERIAL INFECTION

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ABSTRACT

Herbal formulations have growing demand in the global market because natural remedies are more acceptable in belief that they are safer with fewer side effects than the synthetic ones. Skin is the protective layer of the body which is exposed to environmental pollution can further leads to diverse skin diseases. The peel off face gel is one of the most popular forms of topical application used to enhance the quality of facial skin. In this work, polyherbal peel off mask was prepared with *Aloe barbadensis* Miller extract, *Ocimum sanctum* linn extract, *Azadirachta indica* extract, Orange peel powder, Rice powder, Milk powder and others like polyvinyl alcohol, propylene glycol, polyethylene glycol 400, methyl paraben, lactic acid, sodium citrate, xanthum gum and distilled water. The formulations prepared were evaluated for their physical properties, organoleptic behavior, homogeneity, pH, viscosity, spreadability, drying time and stability study. Phytochemical evaluation of extract, Antibacterial Activity, MIC determination, Irritation tests were performed, and it was found to have entirely desired characteristics of a poly-herbal peel off mask. The results showed that the *Aloe barbadensis* Miller extract, *Ocimum sanctum* linn extract, *Azadirachta indica* extract extracts has antibacterial activity with MIC value of 10%, 3 %, 5% respectively. Antibacterial activity of polyherbal peel-off mask gel produced inhibition zone 25.4 mm and 24.6 mm against mixed culture for Sample No01 and 25.1 mm and 24.3 mm against mixed culture Sample No02. It can be concluded that the peel-off mask gel prepared was effective, safe to be used as a topical preparation.

Keywords: Peel-off mask, Anti-acne, Poly-herbal, Antibacterial activity, Physico-chemical evaluation, Short-term stability study



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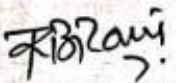
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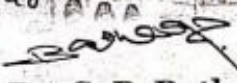
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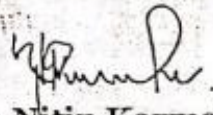
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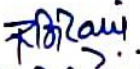
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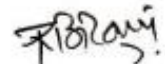
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