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E-NEWSLETTER

**Smt. Sharadchandrika Suresh Patil College of Pharmacy,**  
Chopda-425107, Dist. -Jalgaon, Maharashtra, India

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# NEWSLETTER

2016-17

FOR INTERNAL CIRCULATION ONLY



**Smt. Sharadchandrika Suresh Patil College of Pharmacy,**  
Chopda, Jalgaon, MH.

## INSIDE THIS ISSUE

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**Editor- In-Chief**  
**Dr. G. P. Vadnere**  
**Editorial Team**

Mrs. K. D. Patil  
Mrs. S. S. Mahajan  
Mrs. P. N. Jadhav

Published by:  
Principal, Smt. S. S. Patil,  
College of Pharmacy,  
Chopda, Jalgaon.



## PRINCIPAL MESSAGE

**Dr. G. P. Vadnere**  
Principal

I am delighted to know that college is bringing Newsletter with information on academics and encompassing the events of professional activities, research initiatives and pharma updates. I am sure that Newsletter will give an ample opportunity to the students and faculty to bring their talents and contribute significantly to the profession. I take this opportunity to greet all of you and wish you success in all your endeavours.



## PRESIDENT MESSAGE

**Hon. Adv. Bhaiyasaheb Sandeep Suresh Patil**  
President, MGSM, Chopda.

I am very happy to know that Smt. S. S. Patil, College of Pharmacy is releases it's Newsletter which updates the co- curricular and extracurricular activities of the staff and students of the college. The college aims at preparing the students as Pharmacists and making them aware of their rights and duties stipulated on moral issues based on pharmacy ethics and values.

I wish you all the best for your efforts.

*SMT. Sharadchandrika Suresh Patil, Cop, Chopda Newsletter*

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### OUR AFFILIATION



The North Maharashtra University, Jalgaon, established on 15th August, 1990 under the Maharashtra Universities Act, XXIX of 1989, started its academic and administrative functioning from the academic year 1991-92. Within the span of 3 years, the University is recognized under section 2 (f) in 1991 and 12 (B) in 1994 under the University Grants Commission (UGC) Act, 1956. The University was awarded with **FOUR STAR** grade in the year 2001, **B grade** with **2.88 CGPA** in the year 2009 and **A Grade** with **3.11 CGPA** in 3<sup>rd</sup> Cycle re-accreditation in year 2015 by National Assessment and Accreditation Council (NAAC), Bangalore. A splendid, unique & excellent multi Professional education campus Promoted by the NMU.

### OUR INSTITUTION

Smt. Sharadchandrika Suresh Patil College of Pharmacy Chopda was established in 1992 as self financed pharmacy college in the North Maharashtra University, (NMU) Jalgaon. The institution has made a steady progress during last 24 years. In the year 2006 with the intention of making this institution a centre of higher learning, started M. Pharm. in Pharmaceutics (2006) later M. Pharm in Pharmacognosy (2007) and centre for Ph. D. in Pharmaceutical Sciences (2011). All the courses conducted in this Institution are recognized by Pharmacy Council of India, New Delhi, and All India Council for Technical Education, New Delhi. B. Pharm., M. Pharm. and Ph. D. courses are affiliated to North Maharashtra University, (NMU) Jalgaon.) Institute has been certified An ISO 9001-2008 in 2014 for quality management services. Recently institute has achieved NBA accreditation in August, 2016 for three years.

### FROM THE EDITORS DESK

We the editorial committee have a great privilege on releasing the Newsletter of Smt. S. S. Patil, pharmacy college, Chopda. As we all know a newsletter mirrors a college –its vision and mission. It also highlights events, activities and academic progress and activities. we extend our sincere thanks to our beloved principal for generous support and also grants the permission to release the newsletter This Newsletter encourages many more including students to use it as a platform to express their creativity.

*"In order to succeed, your desire  
For success should be greater than your  
Fear of failure."*



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### OUR ACADEMIC STARS (2016-2017)

#### FIRSTYEAR B. PHARM (IV Sem.) CGPA

#### FIRST YEAR M. PHARM (Pharmaceutics (I sem.))

##### FIRST



Alfaiz Qureshi

##### SECOND



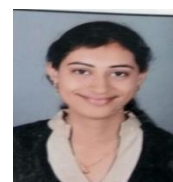
Harshali Songire

##### THIRD



Nhalade Mrunal

##### FIRST



Namrata Patil

#### SECOND YEAR B. PHARM (Sem.IV) CGPA

##### FIRST



Ashwini Chavan

##### SECOND



Bhagyashri Chaudhari

##### THIRD



Shubhangi Katyare

#### THIRD YEAR B. PHARM (Sem. VI) CGPA

##### FIRST



Poonam Perdesi

##### SECOND

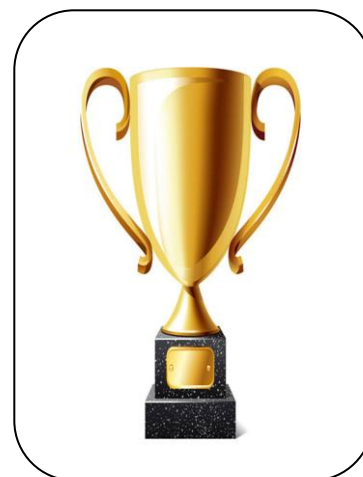


Dipak Nerpagar

##### THIRD



Mukunda Patil



#### FINAL YEAR B. PHARM (Sem.VII) CGPA

##### FIRST



Nilima Patil

##### SECOND



Dharmaraj Patil

##### THIRD



Bhavana Patil



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### M. PHARM PHARMACEUTIS STUDENTS PROJECT NAME/THESIS

Sr. No.	Name of Student	Name of Guide	Title of Dissertation
1.	Wable Kanchan Arun	Mr. Bharat Jain	Formulation and Evaluation of Nebivolol Transdermal Patches
2.	Patil Amit Dilip	Mr. Tanvir Shaikh	Formulation and Evaluation of Floating Tablets of Antihypertensive drug losartan potassium.
3.	Patil Yogesh Shivaji	Mr. Bharat Jain	Formulation and Evaluation of Sustained Release Tablet of Salbutamol Sulphate by using Natural Polymers.
4.	Patil Yogesh Chhotu.	Mr. Bharat Jain	Formulation and Optimization of Floating Microsphere of Glipizide.
5.	Jain Prita V.	Mr. T. Y. Shaikh	Design ,Development and Evaluation of Inclusion Complex of Domperidone using Cyclodextrin and its derivative
6.	Salunkhe Devendra M.	Mr. T. Y. Shaikh	Formulation and Evaluation of Pindolol Pulsatile Drug Delivery system for Effective treatment of Hypertension
7.	Sonawane Digvijay D.	Dr. Parag Jain	Design and development of Lornoxicam Fast Dissolving tablets by different Techniques.
8.	Patil Nikhil Devidas	Dr. Parag Jain	Sustained Release Tablet of Etopride hydrochloride
9.	Patil Mukesh P.	Dr. Parag Jain	Formulation and Evaluation of Fast Dissolving Tablet of Nizatidine.

### M. PHARM PHARMACOGNOSY STUDENTS PROJECT NAME/THESIS

Sr. No.	Name Of Student	Name of Guide	Title of Dissertation
1.	Chavan Piyush Kiran	Dr. G. P. Vadnere	Phytochemical and Pharmacological Screening of Purrariatube ross Roxb in some Aspects of Asthma
2.	Shimpi Nilesh Mandeo	Dr. G. P. Vadnere	In-Vitro Antioxidant and Anticancer Potential of Desmotrichumfimiriatum Blume(Orchidaceae)



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### National Seminar organised by Pharmacognosy department

One day seminar organised on Topic “G.C: As a standardisation Tool”, on 31 July 2016. The Chief Guests are Hon. Dr. P. D. Chaudhari, Principal Modern College of Pharmacy, Pune and Hon. Dr. S. S. Chitlange, Principal Dr. D. Y. Patil Pharmacy College, Pune.



### National Seminar organised by Pharmaceutical chemistry department

One day National Seminar organised on topic “Synthesis characterization: An Opportunistic Gateway to Medicinal Chemistry”, 4 sept.2016. The resource person are Prof. Dr. Avinash S. Dhake, Nasik and Prof. Dr. Ravindra P. Marathe, Aurangabad.



### National seminar organised by Pharmaceutics department

One day national seminar organised on topic “Innovation in Parenteral Packaging and Drug Delivery,” on 24 December 2016. The resource people are Hon. Dr. Umesh Gupta, Ajmer and Hon. Dr. Prashant D. Argade, Jalgaon.





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### National seminar organised by Pharmacology department

One day national seminar organised on topic "Opportunities for Pharmacology Graduates in Industry," 27 February 2017 in the presence of chief guests Hon. Prof. Dr. P. P. Mahulikar, NMU Jalgaon and Hon. Speakers Prof. Dr. C. R. Patil, Shirpur and Dr. A. A. Sinkar, Mumbai.



### Participation and presentation at conferences /seminar



Prof. Dr. A.V. Patil and Dr. B. S. Sathe  
at NIMMS, Shirpur.



Md. Rageeb Md. Usman Conferred with Young  
Teacher Award in Int. Conference and Exhibition at  
National University, Jaipur on 3-4 March 2017.



Releasing of Competitive Book (GATE/GPAT Pharmaceutical Science {PY} Solved Q. Papers {1988 to 2012} with Model Exercise Papers) Written by Bharat Jain & Md. Rageeb Having ISBN 978-93-24457-16-2 by Dr. Dinesh Jaiswal (Senior Partner/VP Pharmaceutical Operation-Achlis Group, New York, USA in International Conference and Exhibition at Jaipur National University, Jaipur on 3-4 March 2017





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### Our students participated in yuvarang 2017, Faizpur:



### Expert talk @ outside



Dr. G.P. Vadnere as a Resource person at Government person at Polytechnic, Department of Pharmacy, Jalgaon



Dr. A.V. Patil as a resource person at SMBT Pharmacy College Nasik



Dr. J.C. Hundiware as resource Diploma Pharmacy college, Amalner



Dr. B. S. Sathe at college of pharmacy Sakegaon



MSBTE, Faculty Training Program at Govt Deptt. Pharmacy, Jalgaon.

*SMT. Sharadchandrika Suresh Patil, Cop, Chopda Newsletter*

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## EXTRA CO-CURRICULAR ACTIVITIES



**Fresher's Welcome:** "PARINDE-2016" for First year B.Pharm and M. Pharm students has been organized at Sharadchandrika Suresh Patil, College of Pharmacy campus dated on 18 sept. 2016 in presence of Hon. Management committee and chief guest Assistant Ex. Officer Tehsil Chopda Mr. Abhijit Pendharkar. Freshers Day is a welcome party to newcomers and there is a need to be friendly and motivate juniors. Mr. Harshal Gujar and Miss Roshani Bhavsar was elected as Mr. and Miss Fresher's respectively.

## Vanmahotsav 2016:

Van Mahotsav is a festival was started in 1950 by Kulapati Dr. K. M. Munshi and then the Union Minister for Agriculture and Food to create enthusiasm among masses for forest conservation and planting trees. This year the Maharashtra state government has taken upon itself to give the state a green make over. The festivals of trees were celebrated on 1 July to 7 July within college campus by planting number of trees in presence of Hon. Management Committee members.



## Ethno Botanical Tour:

Pharmacognosy Department organised Tour on 11 September 2016 at Unapdev (Nature Introduction Centre). In Ethno Botanical Tour introduction and Identification of plant species was given by Mr. Dashrad D. Patil staff of Nature Introduction Centre Unapdev.



**Yuvati Sabha:** "One day personality development program arranged by Yuvati Sabha", 10/01/2017 in presence of speakers Mrs. Vijayatai Patil, President of Nationalist Women Congress, Mrs. Neeta Patil, Dr. Vandana Patil and Dr. Gayatri Patil delivered speech and share thoughts on subjects "StreePurush Samantha Stree janmache swagat, Sharirik Va Mansik Aarogyatun vyaktimatva Vikas, Shikshan Va Jeevan Kaushalya" respectively





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**Annual Gathering:** "Swapnarang 2017" is inaugurated on 25<sup>th</sup> February 2017 by Honourable Management committee with Chief guest Hon. Dr. P. R. Chaudhari, the principal of D. N. college Faizpur and Parents Representative Mr. Chandrashekar Patil, Mr. Latif Shaikh.



### Teachers Day Celebration



### International Women's Day:

Student Welfare Department organised International Women Day on 8 March 2017, in presence of Mrs. Madhuri Lasure Senior Teacher of Vivekanand Vidyalaya Chopda. She delivered seminar on women's Health and Diet.



### Events organised by department of library

Following programmes are conducted in college library in presence of librarian Mr. Brijwasi

1. **Book Fair** on the Occasion of Dr. A.P.J Kalam's Birth Annivesary & Vaachak Purna Diwas on 15th Oct. 2016.
2. **Library Orientation Lecture** organised by our college library for all students on 06/08/2016.
3. **E-Books Exhibition** for College Teachers / Students and other members on the occasion of Dr. S. R. Rangnathans 125th Birth anniversary on 09/08/2016.
4. **General Knowledge Competition** for College Students on the occasion of Dr. S. R. Rangnathans 125th Birth anniversary on 09/08/2016



**E-books exhibition and General knowledge competition:** Exhibition organised by Library department on the occasion of 125<sup>th</sup> birth anniversary of Dr. S. R. Rangthan.

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### Programme organised by Student Welfare Department

Student welfare department of the college organised an interactive session with Mr. Deepak Lagad, Cyber Crime Cell, Pune, on topic “social media Janjagruti vyakhyan”, on 25/03/2017. His emphasis was on the need for each individual to be aware of oneself when using social media. Department also organised the programme T. B. Free India Janjagruti Mohim.



### Our Awards Winner



Miss Aakanksha Patil (T.Y.B. Pharm)  
G.K. Competition



Mr. Prasanna Ghuge (T.Y.B. Pharm)  
received 2<sup>nd</sup> prize in G.K. competition



Miss Poonam Kasar received 1<sup>st</sup> Prize in  
received prize in chess



Mr. Piyush Chavan University third topper in M. Pharm Pharmacognosy.

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### Faculty Research Publication

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1	Dr. G. P. Vadnere	NeuroPharmac Journal	2016
2	Dr. G. P. Vadnere	NeuroPharmac Journal	2016
3	Dr. G. P. Vadnere	NeuroPharmac Journal	2016
4	Dr. G. P. Vadnere	Asian Journal of Pharmaceutical & Clinical research.	2016
5	Dr. G. P. Vadnere	International Journal of Pharmacy and Pharmaceutical Sciences	2017
6	Dr. G. P. Vadnere	Journal Intercultural Ethnopharmacology	2017
7	Dr. A. V. Patil	Indo American Journal of Pharmaceutical Research	2016
8	Dr. J.C. Hundiware	Indo American Journal of Pharmaceutical Research	2016
9	Dr. Santaram Lodhi	Beni-Suef University J.of Basic and Applied Sciences	2017
10	Dr. Santaram Lodhi	Asian Journal of Pharmaceutical & Clinical research.	2017
11	Mr. Bharat V. Jain	Journal of Pharmacy & Research.	2017
12	Mrs. K. D. Patil	Journal of Analysis and drug Regulatory Affairs.	2017
13	Md. Rageeb Md.Usman	Pakistan J. Pharmceutical sciences	2016
14	Md. Rageeb Md.Usman	Int. J. of Pharmacy & Life sciences	2016
15	Md. Rageeb Md.Usman	J. of Pharmacy Research	2016
16	Md. Rageeb Md.Usman	J. of Analysis & Drug Regulatory Affaire	2016
17	Md. Rageeb Md.Usman	Int. J. Pharmaceutical res. & Bio-science	2016
18	Mrs. S. D. Salgar	Journal of Analysis and drug Regulatory Affairs .	2017
19	Mrs. S. S. Mahajan	Int. J. of Pharmacy and Life Sciences,	2016
20	Mr. K. D. Baviskar	Int. J. of Ayurveda & Alternative Medicine	2017
21	Mr. H. G. Brijwasi	Dnyangangotri Yashwantrao chavan Maharashtra Mukta Vidyapeeth,Nasik	2016
22	Mr. H. G. Brijwasi	Int. J. Res. & Innoviation: Int. Multidisciplinary & multilingual Double Blind Peer Review Referred Journal	2016
21	Mr. H. G. Brijwasi	SPER Online Journal	2017
22	Mr. H. G. Brijwasi	Platinum:Current trends in computer science & information technology	2016

### Successful Achievements of 2016-17:

- Mr. Bharat V. Jain received grant for research project under the scheme "Vice Chancellor Research Motivation Scheme (VCRMS)" of Rs. 70000 by North Maharashtra University.
- Mrs. K. D. Patil received grant for research project under the scheme "Vice Chancellor Research Motivation Scheme (VCRMS)" of Rs. 80000 by North Maharashtra University.



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## Major Investments in the Indian Pharmaceutical sector

- India's largest drug maker Sun Pharmaceutical Industries Limited has entered into a distribution agreement with Japan's Mitsubishi Tanabe Pharma Corporation to market 14 prescription brands in Japan.
- Syngene International Limited will be setting up its fourth exclusive Research and Development (R&D) center named Syngene Amgen Research and Development Center (SARC) for a US-based biotechnology company Amgen Incorporation in Bengaluru.
- India's third largest drug maker Lupin Limited plans to file its first biosimilar Etanercept for approval in Japan, world's second largest drug market, in 2017.
- Rubicon Research Pvt Ltd, a contract research and manufacturing services firm, is in advanced talks with Everstone Capital and a few high-net-worth Individuals (HNI) to raise up to Rs 240 crore (US\$ 35.79 million), which will be used to increase the company's manufacturing capabilities.
- Lupin Ltd plans to acquire a portfolio of 21 generic brands from Japan-based Shionogi & Co Ltd for Rs 10.08 billion (US\$ 150.3 million), which will help to strengthen its presence in the world's second largest pharmaceutical market.
- International Finance Corporation (IFC), the investment arm of the World Bank, plans to invest upto US\$ 75 million in Glenmark, which is looking to raise around US\$ 200 million for expansion and the launch of several new products in India and other emerging markets over the next three years.
- Cipla Limited plans to invest around Rs 600 crore (US\$ 89.47 million) to set up a biosimilar manufacturing facility in South Africa for making affordable cancer drugs and growing its presence in the market.
- Rusan Pharma, a firm which specialises in de-addiction and pain management products, plans to invest Rs 100 crore (US\$ 14.91 million) in a R&D centre and a manufacturing unit in Kandla, located in Kutch District in Gujarat.
- Pink Blue Supply Solutions Pvt. Ltd, a clinical supplies provider, has raised Rs 1.5 crore (US\$ 0.22 million) in a seed round of funding from TermSheet.io, a transaction-focused service provider for start-ups and investors.
- The Medicines Patent Pool (MPP) has signed a licencing agreement with six Indian drug makers for the generic manufacturing of four antiretrovirals (ARV) and hepatitis C direct-acting antiviral drug Daclatasvir.
- Dr Reddy's Laboratories, one of the major pharmaceutical companies of India, has entered into a strategic collaboration agreement with Turkey-based TR-Pharm, to register and subsequently commercialise three biosimilar products in Turkey.
- Lupin has completed the acquisition of US-based GAVIS Pharmaceuticals in a deal worth US\$ 880 million, which is expected to enhance its product pipeline in dermatology, controlled substances and high-value speciality products.
- Cipla Ltd, one of the major pharmaceutical and biotechnology companies in India, has acquired two US-based generic drug makers, InvaGen Pharmaceuticals Inc. and Exelan Pharmaceuticals Inc., for US\$ 550 million, which is expected to strengthen Cipla's US business.
- Emcure Pharmaceuticals has acquired Canada's International Pharmaceutical Generics Ltd and its marketing arm Marcan Pharmaceuticals in order to boost its global expansion drive.
- Cipla announced the acquisition of two US-based companies, InvaGen Pharmaceuticals Inc. and Exelan Pharmaceuticals Inc., for US\$550 million.
- Glaxosmithkline Pharmaceuticals has started work on its largest greenfield tablet manufacturing facility in Vemgal in Kolar district, Karnataka, with an estimated investment of Rs 1,000 crore (US\$ 149.11 million).
- Lupin has acquired two US based pharmaceutical firms, Gavis Pharmaceuticals LLC and Novel Laboratories Inc, in a deal worth at US\$ 880 million.
- Several online pharmacy retailers like PharmEasy, Netmeds, Orbimed, are attracting investments from several investors, due to double digit growth in the Rs 97,000 crore ( US\$ 14.46 billion) Indian pharmacy market.

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- Strides Arcolab entered into a licensing agreement with US-based Gilead Sciences Inc to manufacture and distribute the latter's cost-efficient Tenofovir Alafenamide (TAF) product to treat HIV patients in developing countries. The licence to manufacture Gilead's low-cost drug extends to 112 countries.

## Guidelines to prepare for GRE and TOEFL

### GRE as general test of aptitude and general guidelines-

GRE test is of two types- General and Subject. Of these 2, General GRE test suffice the criteria of applying for any university in USA in the field of Pharmaceutical Sciences, Biomedical Sciences or other medical and health-care disciplines.

A General GRE test examines an examinee in 3 sections- Verbal, Quantitative and Analytical writing.

1. **Verbal Section-** A verbal section tests the proficiency of the examinee in the language and his/her flair in understanding variegated sections of English inclusive of comprehension, sentence completion, antonyms etc. This section is usually the toughest of all 3 sections and has to be studied very carefully grasping every petty details. Though, a rigorous study and practice makes it quite simple for a student to understand and catch the traps and overcome them too. Moreover, about 4000-5000 English words have to be learnt with their annotations and antonyms. This has to be reinforced with a daily schedule of learning new words from a GRE course book.
2. **Quantitative Section-** This is usually the simplest of all sections and examines the proficiency of a student in solving basic mathematics problems. However, few questions that appear in this section seem to be way too difficult, although they can be solved by employing certain strategies.
3. **Analytical Writing-** This section is all about the writing skills and usage of English proficiently in writing essays. This also tests the ability of the student to analyze a given situation and give his inputs or report the existing scenario.

### Free Internet Resources for preparing GRE -

#### Practice tests-

<http://www.greguide.com/download.html>

#### Word lists/antonyms/synonyms-

<http://www.greguide.com/gre-big-book.html>

<http://www.graduateshotline.com/list.html>

<http://www.majortests.com/gre/wordlist.php>

#### GRE Guide-

<http://www.gistguide.com/guide/gre/gre.php>

<http://www.greguide.com>

<http://www.studyguidezone.com/pdfs/greteststudyguide.pdf>

### Books Recommended for GRE & TOEFL

1. Barron's- Barron's is famous for its exhaustive word list containing as much as 3500 words and their annotations. Beside this, it also contains many synonyms of every word it covers. Secondly, it contains guidelines and directions on how to solve every sub-section, viz. - synonyms, antonyms, comprehension, sentence completion etc. Adding to this, it discloses various tricks ETS uses to pitfall the students appearing for GRE exam and the ways to escape those traps.
2. Princeton Review- This book is not available in the market and is offered only to the students enrolled in the GRE preparation course by 'The Princeton Review- Score plus Academy'.
3. My Comments and Big Book-

### TOEFL as general test of fluency in English and general guidelines-

TOEFL test is of four types- Reading, Listening, Speaking and Writing



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### Reading Section-

This section is very much similar to the comprehension passages in the GRE- General test by ETS. However, the passages in the TOEFL are much simpler and lot lengthier than those in the GRE tests. Also, usually the portion of the passage focused upon by a question is highlighted unlike those in the GRE tests.

### Listening Section-

Well, this section needs a good understanding in the American accent of English. This section tests the ability of the candidate to understand their accent clearly and that too in a single go! Once listened, the same passage or conversation isn't repeated twice. Hence, a student must possess both a quick perception and ability to keep the stuff talked in mind. Usually, the latter is not possible and hence a writing work do helps a lot for those facts which are difficult to be retained in mind or are complicated or else. This sections requires a good deal of practice.

### Speaking Section-

The most important idea in this section that is to be focused upon is lucid, uninterrupted and smooth fluent English without pauses (even though the speaker has Indian accent of English).

### Writing Section-

This section is complimentary to the analytical writing essay of the GRE- General test. It involves write up on given issue and is time limited test. It focuses on the writing ability and the caliber of the candidate to frame a logical, coherent and meaningful body of the essay that is appealing to the reader.

### Free Internet Resources-

#### Practice tests-

<http://www.examenglish.com/>

[http://i-courses.org/?p=sample\\_tests](http://i-courses.org/?p=sample_tests)

<http://demo.toeflbtcourse.com/>

#### TOEFL Guide-

<http://www.toeflbtcourse.com/>

<http://www.goodlucktoefl.com/>

<http://www.tcyonline.com/toefl/>

<http://books.google.co.in/books?id=V3a8yq0k6i4C&printsec=frontcover&dq=T...>

## Scope for Pharmacy Graduates

In India after B. Pharm Job Opportunities can be explained under four heads.

- Scope of B. Pharmacy in government sector
- Scope of B. Pharmacy in private sector
- Self Employment Opportunities
- Opportunities After Higher Education

### Scope of B. Pharmacy in government sector

#### Drug Inspector:

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Drug Inspector is an lucrative career option. State Governments, SSC and UPSC recruit drug Inspectors from time to time. Method of selection vary. As per some drug Inspector notification recruitment is done after an competitive exam, sometimes recruitment is done on basis of direct merit of marks obtained in degree and 10 + 2.

As per some drug inspector notifications about couple of years experience in manufacturing or testing of Schedule C drugs is also required.

#### **Pharmacist:**

Pharmacist Employed on permanent basis in Central Government Hospitals like ESIC and AIIMS, Railways, and States Like Delhi withdraw respectable Salary. Eligibility for Government Pharmacist Job is Diploma in Pharmacy or Bachelors in Pharmacy . Registration as pharmacist in Pharmacy Council of state is required.

#### **SSC, UPSC, State PSC and bank jobs:**

If you like to make your career in the government sector, pharmacy graduates can give entrance exams for Bank PO, SSC, State PSC and Civil services exams as well, thus widening the opportunities.

#### **Scope of B. Pharmacy in private sector**

##### **Pharmaceutical Marketing:**

B. Pharmacy freshers are employed in marketing of pharmaceutical products and medical devices as Medical Representatives (MR) . Career growth in marketing depends on the networking ability, knowledge and communication skills. Initially marketing require more physical work due to travel, but as you progress workload may reduce with promotion, also depending on company culture. You can be promoted to assistant manager, area manager, regional manager etc posts.

##### **Production/ Manufacturing Sector, Medical Devices and Quality Control:**

Pharmaceutical and medical devices manufacturing Units employ B.Pharm Freshers and experienced persons to look after the daily operations and quality of formulations. In this sector the starting salary is lowest after B.pharm. Growth is usually slow without any higher qualification. However if you are smart, after 4-5 years you can get approved as manufacturing chemist and get good increment. Also shifting job to good company after couple of years experience is good option. You can also pursue some higher education along-with Job.

##### **Regulatory Affairs:**

Pharmaceutical companies, especially exporters require pharmacy professionals to make regulatory dossiers. Though in this sector Companies prefer to employ M. Pharm. Opportunities are limited but respectable after good experience and knowledge.

##### **Medical Underwriting:**

This is not traditional field, but is promising. After B.pharm you can start as medical underwriter with small company and after getting necessary experience can shift to company paying good salaries. Job responsibilities could be as medical scribes or medical transcription or medical coder or check insurance related records or write medical related document etc. Knowledge in pharmacology, anatomy and medical terminologies are required to get this job.

##### **Pharmacist:**

Registered Pharmacists can get job as pharmacists in retail pharmacies. Career growth is not good, but this job will provide you with necessary job experience to apply for government Pharmacist Jobs. It is a good short term option for unemployed.

#### **Self Employment Opportunities**

##### **Drug store or wholesaler:**

A medical shop at good location offer an good income if it is run professionally. Any registered pharmacist can get license to run a medical shop. Wholesale Supplier of medicines to other stores is also an good option if you are able to establish fruitful relations with medical shop owners.

##### **Pharmaceutical company:**

Ambitious persons can set up their own manufacturing facility or can market medicines under their own brand name.

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## Effect of Demonetization at Pharmaceutical sector

Demonetization means when a country bans or replace its own currency to new currency of any value to fight against corruption and black money. A new entrepreneur faces much type of difficulties during his start up journey. One of the main problems that are faced by them is cash bribe donated by big pharma companies in pharma ocean.

### Effects at pharmaceutical sectors

Rates of medicines – As cash flow is going to diminish, all transaction will be done through banks and online. There will be accurate profit earning report at all steps. No one can take much profit as he has to show it in his ITR. It will indirectly cause cheaper medicines followed by legal invoicing and billing habits.

Prescribe for cash – prior ethic codes in pharmaceutical market have banned benefits take by doctor from pharmaceutical companies in forms of tours, conferences and gift etc. Now demonetization will directly affect prescribe for cash habit. No cash, no prescription is going to change forever. It will not only cause loss to big pharma companies but also for small entrepreneurs who were used to of this habit of generating prescription for them.

More regulated market – Every retailer and distributor transaction could be regulated by government. There will be more control of drug department at every purchase and sale you conduct. Most of retail and distribution transaction will be done through banks only.

Implementation of new rules and regulations – Without ill medicine availability were major concern for government to implement banning of illegal drugs and medicines.

Knowledge and innovation based market – With removal of cash from industry, new innovation in pharmaceutical sector will be initiated. There will be requirement of new study and scientific proofs to convince doctors to prescribe medicines.

## NPPA cuts prices of malaria, HIV, cancer drugs by up to 45%

Prices of 22 essential drugs used for treatment of cancer, HIV, bacterial infections and malaria among others, have been capped by the government, reducing the cost in the range of 10-45 percent.

"NPPA has fixed/revised ceiling prices of 22 scheduled formulations of Schedule-I under Drugs (Price Control) Amendment Order, 2016 and retail price of 13 formulations under DPCO, 2013," the National Pharmaceutical Pricing Authority (NPPA) said in a statement.

When contacted, NPPA Chairman Bhupendra Singh said, "The prices have been reduced in the range of 10 to 45 per cent. While the prices of some drugs have been reduced by 10 per cent, prices of others have been cut by up to 45 per cent."

The government had notified the DPCO 2013, which covers 680 formulations, with effect from May 15, 2014, replacing the 1995 order that regulated prices of only 74 bulk drugs.

Set up in 1997, NPPA has been entrusted with the task of fixation/revision of prices of pharma products, enforcement of provisions of DPCO and monitoring of prices of controlled and decontrolled drugs.



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## Powerful Indian women leaders in Pharmaceutical & Healthcare

**Kiran Mazumdar Shaw, Chairman & Managing Director, Biocon Limited**



Ms. Shaw heads India's leading biotechnology enterprise, Biocon. She is highly respected in the corporate world and has been named among 'TIME' magazine's 100 most influential people in the world. Recently, 'Economic Times' placed her at India Inc's top 10 most powerful women CEO for the year 2012.

Ms Shaw chairs Karnataka's Vision Group on Biotechnology and also served on the Board of Science Foundation, Ireland. She serves on the Advisory Council of the Government's Department of Biotechnology where she has been instrumental in bringing government, industry and academia together, to chart a clear and progressive growth path for biotechnology in India. She is also part of the Prime Minister's Council on Trade & Industry in India and the US-India CEO Forum. Ms. Shaw serves as Member, Governing Body and General Body of the Indian Pharmacopoeia Commission, an Autonomous Body of the Government of India. She is also a member of the Union Commerce Ministry-instituted committee to advise the government on India's export promotion strategy. She is a founder member of the Society for the formation of "Institute for Stem Cell Biology and Regenerative Medicine". Moreover, she is serving on the Global Advisory Committee for its "Women and the Green Economy Campaign" Indian National Corporate governance policy to prepare a draft for a concept paper.

**Dr. Preetha Reddy, Managing Director, Apollo Hospitals Enterprise Limited**



Preetha had formally joined Apollo Hospitals as Joint Managing Director in 1989 and five years later, she became the Managing Director of the Group. Preetha Reddy steers the operations of the Apollo Hospitals group and works closely with the clinicians to help introduce contemporary protocols and continually raise the bar for clinical outcomes. She also oversees the planning, designing and funding of new projects, with a view to directing the Group towards optimum utilization of resources and funds.

She works with industry bodies and the Government of India to advance policy decisions on important healthcare issues. In 2009, Prime Minister Dr. Manmohan Singh invited her to join the Indo-U.S. and Indo-Malaysia CEOs Forum, think-tanks created to strengthen bilateral cooperation and trade. Dr. Preetha Reddy was ranked in the International list of "50 Most Powerful Women in Business", by Fortune in 2010 and 2011, and also in 'The Most Powerful Women in Business' List compiled by Fortune India – 2011. She has been a regular in the 'Business Today's' list of powerful business women since 2006.

**Dr. Swati A Piramal, vice chairperson, Piramal Enterprises**

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Dr. Swati Piramal is one of India's leading scientists and industrialists, and is involved in healthcare. Dr. Piramal leads a team of scientists in cancer, diabetes, inflammation and infectious disease research, with a portfolio of over 200 international patents, and 14 new drugs. Piramal Enterprises is a multinational, with global manufacturing operations and supplies medicines to over a 100 countries. In the last, nearly two decades, she has worked in the prevention of chronic diseases like diabetes, arthritis, and heart disease. She started Ostop India, a prevention of Osteoporosis programme, and a field detection centre for detection of Diabetes, and Epilepsy, and a nationwide campaign for the prevention of chronic disease in India. The first woman President of India's Apex Chamber of Commerce, ASSOCHAM, in 90 years, she helped influence important public policies and governance.

On April 2012, Dr. Piramal received the Padma Shri, at the hands of the President of India. In May 2012, Dr. Swati Piramal was elected a Member of the Harvard Board of Overseers. Dr. Swati has also received the Alumni Merit Award, the highest award bestowed on Alumni from Harvard in September 2012 and the Lotus Award at New York, from Children's Hope India, for Leadership and Philanthropy in October 2012. DrPiramal has been the recipient of one of France's highest honours - "Chevalier de l'Ordre National du Merite" (Knight of the Order of Merit) in 2006, for medicine and trade. She received the Rajiv Gandhi Award for Outstanding Woman Achiever, from the Rajiv Gandhi Foundation, in 2007.

**Vinita Gupta, CEO, Lupin Pharmaceuticals**



A graduate in pharmacy from the University of Mumbai and MBA from J L Kellogg Graduate School of Management, Mrs. Vinita Gupta has been instrumental in Lupin's forays into the Advanced Markets and heads the Advanced Market business of the company in the markets of USA and Europe. Under her leadership, Lupin has emerged as a global generic player, especially in the US market in addition to becoming a strong player in the pediatric branded market. She is also a Chief Executive Officer Lupin Limited on the Board of Lupin Ltd

These women are calling the shots not only in Indian pharma and healthcare space, but they are also setting benchmarks for leadership globally. We hope to see many more rising stars in this sector in the years to come.

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