Pharmacorner

For GPAT & NIPER JEE.

We provide Model Papers & Notes.

All Materials Prepared By NIPER ( TOP 50 Ranker)

Entrance Exam Alerts.

For GPAT

                                                   (15 Model Paper + notes)

Notes includes imp tables

Model Paper according to GPAT Syllebus  covered all subjects.

Key Notes

Question Bank for imp subjects.

For NIPER JEE

                                   ( 5 Model Paper + imp materials by mail )

Research  Articals. ( More than 50)

USFDA drugs

NIPER Notes ( all imp topics for NIPER JEE )

All imp notes for Organic Chemistry, Pharma. Analysis, Management

NIPER JEE Previous Question Papers

Imp software

Other info.

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**NIPER – What to READ???**

**Instructions:**

* Ø National Institute of Pharmaceutical Education and Research is the premier Institute in INDIA for pursuing the post graduation in Pharmaceutical line running in Mohali, Ahmedabad, Raibareilly, Kolkata, Hyderabad, Guwahati and Hajipur.
* Ø NIPER JEE contains 200 Questions for 2 hours (36 sec per question)
* Ø Most of the basic questions are asked in exam so there is no need to do much hard work but smart work
* Ø The student has to move fast with adequate time for thinking on the question.
* Ø Confidence, Self control, thinking capability and hard working are the essential requirements to be successful in exam.
* Ø NIPER has its own merit (so don’t think much on GPAT rank).
* Ø Generally for all NIPERs admission closes on below 500 rank

So in order to give an essential thrust to your dream, I am providing a kind of near to exam point of view syllabus for aspirants (Although NIPER exam don’t have any syllabus, you have to read everything) and ya this syllabus is acroding to what me and my other NIPER friends read and not authorized. So if any descrepeniency arises, you can refer if you know much than this..!!

**1.     Pharmaceutics:** Leon Lachman is the most widely used book and most referred for exam. Do all the chapters, starting from Milling, mixing to semisolid dosage forms. All the tables of Lachman are important. Questions will be mostly from Lachman.

**Chapters:** Milling, Mixing, Size reduction and separation, Drying, Filtration, Aerosols, Sterilizations, Suspension, Emulsion, Parenterals, Micro-encapsulation, Semisolids, Suppositories, compression and Consolidation, Tablets, Capsules, Coating, Liquid dosage forms, Preformulation etc.

**Martin/Subramanyam**: Subramanyam should be referred for all chapters. However, States of matter and last 2 chapters should be referred from Martin.

**Brahmankar:** Read this book very cautiously as there is many questions prone to come from this book

ADME chapters, Nonlinear Pharmacokinetics, Compartment modelling (all methods like Wegner Nelson, Residual method, Loo Reigelman, NDDS, All equation of AUC, Tmax, Cmax, Clearance etc.

Read all dose calculations formula from **RM Mehta**.

**Cosmetics:** Read essential ingredients of each cosmetic formulation and their use.**2.**

**2. Pharmacology: Rang and Dale**

-         Tables and boxes of each chapter, bold letter points from book. Initial chapters are very important from the book like receptors, signal transduction. Everything should be known about receptors. Mechanism of action of drugs, classification (Refer KDT also for this), adverse effects, Specific use, haematology, vaccines etc from K.D. Tripathi

-         Receptor- theories, type: spare, silent, orphan, pre & post synaptic.

-          Concept of CGMP, CAMP, desensitization, tachyphylaxis , drug dependence .drug interaction.

-         . Detail study –antimalarial, anti TB, antileishmanial, anti-diabetic bioassay

**3.     Organic Chemistry**

**-Stereochemistry** (from all 3 books – Brahmankar, Morrison and Jerry March)

- Concepts like hybridization, inductive effect, hyper conjugation, resonance, acidity and basicity comparison between heterocyclic’s, aliphatic and aromatics.

-         Name reactions (30-35)

-         Bio-molecules from Morrison-Boyd

-         Glossary from Mehta and Mehta

-         Name and formula of all the catalysts used in chemical processes

-          All the rules in chemistry (Markovnikov, Antimarkonikov, Bredt’s etc)

-         SN1,SN2,E1,E2, Huckel’s rule,

-         Ester Hydrolysis mechanism, tautomerism, pericyclic reactions, Diels Alder reaction.

**4.     Analysis:**

* Ø NMR (Kemp and Pavia): NMR values, standards, solve simple spectra’s, and instrumentation etc. Do read Ravishankar.
* Mass Spectroscopy(Pavia)
* Ø UV (Pavia)
* Ø IR(Pavia)

Do read Kasture, Ravishankar and Chatwal for all chapters.

* Ø AAS, Fluorimetry, Flame photometry etc. (Kasture, Ravishanakar, Chatwal)
* Ø Chromatography (Kasture, Ravishanakar, Chatwal)
* Ø Karl-Fischer
* Ø Titrations
* Ø DSC, TGA, XRD, FTIR
* Ø Stability studies and its conditions and zones of stability
* **5.  Pharmacognosy:**Kokate (all chapters including marine drugs)

Evans: Marine drugs, Quality control, Flavanoids, Caretenoids etc

Refer Khandelwal for tables of characteristics of imp drugs, chemical tests, and Microscopies (generally type of stomata, type of leaf is asked).

Biosynthetic Pathways, primary and secondary metabolites, Nutraceuticals, Plant growth regulators

**6.     Biochemistry:** All important chapters like Carbohydrates, protein, lipids, cell structure, vitamins, enzymes, nucleic acids, PCR, Porphyrins, metabolism cycles, Lac operon, biochemical values,  Biochemical Tests, Fermentation etc, industrial enzymes, vaccines and other biotech products, Electrophoresis.

**7.     Microbiology:** Bacterial cell wall, growth, Disease causing organisms from fungi, bacteria, Rickettssia etc, diagnostic tests, microbial assays, Hypersensitivity, Immunology, Virus, Industrially utilized organisms.

**8.     IP:** Blue pages in it, Solubility limits, temperature limits, Dissolution apparatus, limits of tablets, capsules, semisolids etc

**What’s NEW????**

**1.     General Knowledge:** Read everyday news paper. Remember current happenings like Miss INDIA, Miss World peagent, Olympic Games will be held at?

**2.     Pharmaceutical News**: Subscribe to Fierce pharmaceutical mails, Read pharmaceutical news from Economic times or another site from web.

**3.     Nobel Prize winners:** Name and his work. Recent award getters and all Indian Noble prize winners and their area.

**4.     New Drugs approvals:** Read the drugs approved in last 3 months and their use from USFDA site.

**5.     Regulatory:** Read some guidelines and like 505b2 (Hybrid NDA), 505b1 etc.

**6.** New Drug application (NDA), Abbreviated New Drug Application (ANDA), Supplementary NDA, Emergency NDA, Treatment NDA

**7.     Intellectual Property Rights:** Patents, Copyrights, Trademarks etc. Fees for patents, duration, time for processing for patent, provisional patent, WIPO, TRIPS, Mail-box applications, Orange book, Hatch-Waxman Act, Para 1,2,3, 4 and what are they used for, compulsory licence, Transfer of Technology and Capture of Technology, TRIMS, Patent Organization Treaty etc.

**8.     Full forms**

**9.     Synonyms/Antonyms/ Vocabulary**

**10.   Biostatistics:** Mean, Median, Mode, Standard deviation, Correlation coefficients, confidence intervals, Probability, Permutation and combination, ANOVA (use, definition and formula), t-test (Use, definition and formula) etc.

**11.  Amorphous systems:** Definition, methods for amorphous generation, Glass transition (Tg), vitrification, devitrification, Methods for Tg determination etc.

**12.  Jurisprudence:** Schedules, Members in committee, places of institutes, important years related to Act and laws in pharmacy.

**13.  Bank:** various banks in INDIA, their CEO’s, their year of establishment and other information

**14.  World Regulatory agencies of various countries:** INDIA (CDCSCO), ANVISA (Brazil), TGA (Australia), FDA (USA), EMEA (Europe).

**15.  Gene sequencing, Alignment tools etc.**

**16.  Stages of formulation development**

**17.  Basic knowledge about NABARD, Planning commission etc.**

**18.  Symbols for amino acids**

**19.  Top 10 pharmaceutical companies in India and World**

**20.  Softwares**

**21. Refer all previous years papers**

**How to READ!!!**

You have 2 months so read according to following - 2 subjects per day. As most of content you have read for GPAT. Concentrate on basics and move fast but steady so that you can remember.

**No of Days: 12**

**- Pharmacology + Pharmaceutics**

**No of Days: 12**

**- Chemistry\* + Analysis + Microbiology**

**No of Days: 12**

**- Pharmacognosy + Biochemistry + Jurisprudence**

**5 days**

**- Extra things asked in NIPER**

**10-15 days**

**- Revision**

**Chemistry\*** - It can be completed in 7 days if you read specific not whole books. If you have exams in between try to cope up with that by adjusting days.