

GPAT DISCUSSION CENTER

NIPER-2021

RANKED NO. -1
IN PHARMA EDUCATION



PROSPECTUS - 2021

JOIN WHATSAPP GROUP FOR NIPER



**TO REGISTER
MAIL YOUR GPAT-2020
SCORE CARD AND
WHATSAPP NUMBER ON
gdcgpat037@gmail.com**

GET FREE NIPER EXAM TIPS

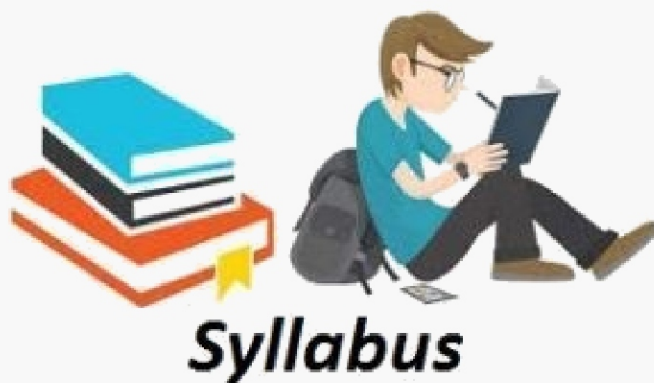
CALL US TO GET FREE ONLINE TEST

GPAT DISCUSSION CENTER

www.gdc4gpat.com | www.gdconlinetest.in

9770765680, 8602227444

NIPER-2021



GPAT DISCUSSION CENTER

A-17, Rajaswa Colony, Ashok Nagar, Sarkanda, Bilaspur

Email: gdcgpat037@gmail.com

Website: www.gdclive.com | www.gdconlinetest.in

ALLAHABAD | BILASPUR | BHILAI | RAIPUR | BHOPAL | INDORE | DELHI | GHAZIABAD | BHUBANESWAR | BRAHMAPUR | MUMBAI

GPAT DISCUSSION CENTER

Ranked Number 1 in Pharma Education



Now your GPAT-2021 result have been declared you might be enjoying last day of your college life (writing slams, enjoying parties etc.) but remember that you have not still achieved your final destination because there is no place in India like NIPER for pursuing your post graduate education. So you should have proper Balance between your enjoyment and study.

We have decided to take one step ahead and to start the NIPER Test series & Classroom program for NIPER JEE-2021, which will make your preparation easier and more oriented. Any rank qualified ranker in GPAT, also get admission in NIPER by their hard work in rest period of time, We will prove this again in coming month.

The National Institute of Pharmaceutical Education and Research (NIPER) at S.A.S Nagar (Mohali) created as a Centre of Excellence for imparting higher education, research and development in pharmaceutical sciences and management is the first Institute of its kind in the country. The Institute was declared as an Institute of National Importance by Government of India through an Act of Parliament, notified on 26th June 1998. The Institute is a member of the Association of Indian Universities. During the years 2007 and 2008, Government of India established six more NIPERs as detailed below:-

- ➔ **NIPER, Mohali**- www.niper.nic.in
- ➔ **NIPER , Ahmedabad** - www.niperahm.ac.in
- ➔ **NIPER , Guwahati** - www.niperguwahati.ac.in
- ➔ **NIPER, Hajipur**- www.niperhajipur.ac.in
- ➔ **NIPER, Hyderabad** - www.niperhyd.ac.in
- ➔ **NIPER, Kolkata** - www.niperkolkata.edu.in
- ➔ **NIPER,Raebareli**- www.niperraebareli.edu.in

NIPER Act empowers the Institute vide following Sections

Section 7(ii) “to concentrate on courses leading to masters degree, doctoral and post doctoral courses and research in pharmaceutical education”. Section 7 (iii) “to hold examinations and grant degrees”.

Section 32 “Not with standing anything contained in the University Grants Commission Act, 1956 or in any other law for the time being in force, the Institute shall have power to grant degrees and other academic distinctions and titles under this Act”.

Institute is awarding degrees like Ph.D.; M.Pharm.; M.Tech. (Pharm.); M.S.(Pharm.) and M.B.A. (Pharm.) As mandated to it by Section 7 (ii), (iii) and Section 32 of the NIPER Act 1998.

The main objectives of the institutes are :

1. Toning up the level of pharmaceutical education and research by training the future teachers, research scientists and managers for the industry and profession.
2. Continuing education programmes
3. Creation of National Centres to cater to the needs of pharmaceutical industries and other research and teaching institutes
4. Collaboration with Indian industries to meet the global challenges
5. National/International collaborative research
6. Curriculum and media development
7. Study of sociological aspects of drug 'use and abuse', and rural pharmacy, etc
8. Conducting programmes on drug surveillance, community pharmacy and pharmaceutical management

IMPORTANT DATES FOR ADMISSION

| TENTATIVE IMPORTANT DATES FOR ADMISSION | | |
|---|---|----------------------------|
| 1 | Date of commencement of online Registration | April 1 st Week |
| 2 | Last date for online Registration | May 2 nd week |
| 3 | Online Delivery of Admit Card to respective e-mails / Downloads | June 1 st Week |
| 4 | Online NIPER Joint Entrance Examination (Computer Based Test) | June 2 nd Week |
| 5 | Declaration of result (Website-www.niperahm.ac.in) | June 3 rd Week |



ACADAMIC PROGRAM

AVAILABILITY AT VARIOUS NIPERs AND QUALIFYING DEGREES

The institute offers the students various courses viz. M. Pharm, M. Tech. (Pharm), M.S (Pharm.) and Ph.D. Programmes in various departments every year.

First bring good rank in entrance

Specialization branch you can select at time of counseling.

ACADEMIC PROGRAM: AVAILABILITY AT VARIOUS NIPERs AND QUALIFYING DEGREES
M.S.(Pharm.); M.Pharm.; M.Tech. (Pharm.), M.B.A. (Pharm.)
Departments/Disciplines, Offering NIPERs and Eligibility Criteria

| | |
|---|--|
| Biotechnology: | M.S. (Pharm.) |
| Offering NIPER: | Ahmedabad,Guwahati,Hajipur,S.A.S.Nagar |
| Eligibility: | B.Pharm.; M.Sc. (Biological Sciences) |
| Clinical Research: | M.Pharm. |
| Offering NIPER: | S.A.S. Nagar |
| Eligibility: | B. Pharm. |
| Medicinal Chemistry; | M.S. (Pharm.) |
| Offering NIPER: | Ahmedabad, Hyderabad, Kolkata,Raebareli, S.A.S. Nagar |
| Eligibility: | B.Pharm.; M.Sc.(Organic Chemistry) |
| Medical Devices: | M.S.(Pharm.) |
| Offering NIPER: | Ahmedabad |
| Eligibility: | B.Pharm |
| Natural Products: | M.S. (Pharm.) |
| Offering NIPER: | Ahmedabad,Kolkata,S.A.S.Nagar |
| Eligibility: | B.Pharm.;M.Sc.Organic Chemistry) |
| Pharmaceutical Analysis: | M.S.(Pharm.) |
| Offering NIPER: | Ahmedabad,Hyderabad,S.A.S.Nagar |
| Eligibility: | B.Pharm.; M.Sc.(Organic/Analytical Chemistry) |
| Pharmaceutical Technology (Biotechnology): | M.Tech. (Pharm.) |
| Offering NIPER: | S.A.S. Nagar |
| Eligibility: | B.Pharm./M.Sc. (Life Sciences) |
| Pharmaceutical Technology (Formulations): | M.Pharm. |
| Offering NIPER: | S.A.S. Nagar |
| Eligibility: | B.Pharm. |
| Pharmaceutical Technology (Process Chemistry): | M.Tech. (Pharm.) |
| Offering NIPER: | Hyderabad, S.A.S. Nagar |
| Eligibility: | B.Pharm.; M.Sc. (Organic Chemistry); B.Tech. (Chemical Engineering) or equivalent |

Regulatory Toxicology: M.S. (Pharm.)

Offering NIPER: Hyderabad, S.A.S. Nagar

Eligibility: B. Pharm.; B.V.Sc.; M.Sc.(Pharmacology/ Toxicology/LifeSciences/Biochemistry/Medical Biotechnology/Zoology); M.B.B.S.

Traditional Medicine: M.S. (Pharm.)

Offering NIPER: S.A.S. Nagar

Eligibility: B.Pharm; B.A.M.S.; M.Sc. (Botany)

Pharmaceutical Management; M.B.A.(Pharm.)

Offering NIPER: Hyderabad; S.A.S. Nagar

Eligibility: B.Pharm.; B.Tech (Chemical Engg. or equivalent); M.Sc. (Chemical/Life Sciences)

Pharmaceutics: M.S. (Pharm.)

Offering NIPER: Ahmedabad, Hyderabad, Raebareli; S.A.S. Nagar

Eligibility: B.Pharm.

Pharmacoinformatics: M.S. (Pharm.)

Offering NIPER: Hajipur, Kolkata, S.A.S. Nagar

Eligibility: B. Pharm.; M.Sc.(Organic/Physical/Pharmaceutical Chemistry); M.Sc./B.Tech. (Bioinformatics);

M.Sc. (Biochemistry/Biotechnology/Molecular Biology/Microbiology)

Pharmacology and Toxicology: M.S. (Pharm.)

Offering NIPER: Ahmedabad, Guwahati, Hyderabad, Raebareli, S.A.S. Nagar

Eligibility: B.Pharm.; B.V.Sc.; M.B.B.S.

Pharmacy Practice: M.Pharm.

Offering NIPER: Guwahati, Hajipur; S.A.S. Nagar

Eligibility: B. Pharm.

(Ahmedabad; Guwahati; Hajipur; Hyderabad; Kolkata; Raebareli; S.A.S.Nagar)

NIPER S.A.S. NAGAR

Indian Pharma Industry has been a global leader in generic drugs. In order to acquire leadership position in drug discovery and development and to continue to excel in the formulations, Government recognized that human resources/talent pool is very critical. Thus, Government of India set up “**National Institute of Pharmaceutical Education & Research (NIPER) at S.A.S. Nagar Mohali**” in 1991 as a registered society under Society Registered Act, 1860. Subsequently, the Institute was given statutory recognition by an Act of Parliament (NIPER Act, 1998) and NIPER has been declared as an **Institute of National Importance**.

National Institute of Pharmaceutical Education and Research (NIPER), S.A.S. Nagar, an autonomous body set up under the aegis of Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Government of India, is the first national level institute in pharmaceutical sciences with a proclaimed objective of becoming a centre of excellence for advanced studies and research in pharmaceutical sciences. **NIPER, S.A.S. Nagar is ranked No. 3 by the National Institutional Ranking Framework (NIRF) for the year 2019 in the Pharmacy category in the country.** In addition to the above, NIPER S.A.S. Nagar is a member of Association of Indian Universities. Since its inception, 2579 Master's, 607 MBA and 320 Ph.D. students have graduated from NIPER, SAS Nagar. Institute is involved in the cutting edge research in various diseases area, very well exemplified by publication of 2580 research papers and filing of 192 patents out of which 91 have been granted.

The aims of NIPER S.A.S. Nagar are achieved by :

- 1. Teaching activities** M.S. (Pharm.), M.Tech. (Pharm.), MBA (Pharm.) & Ph.D. courses are being offered.
- 2. Research and Development activities** - Sponsored research projects/consultancy/Project handling/upscaling.
- 3. Support to industry** - The Institute provides support to the industry through its service centres viz Library & Information Centre, Central Instrumentation Laboratory, National Toxicology Centre, Small & Medium Pharmaceutical Industry Centre, Technical Development Centre, National Bioavailability Centre, NPIE etc.)

NIPER, S.A.S. Nagar offers highly trained technical manpower to the domestic pharmaceutical sector. The merit of the students (Masters' and PhD) of the Institute has been recognized with many awards and distinctions. The Institute has also been awarded with **Thomson Reuters Innovation Award 2011** (Govt. sector).

NIPER S.A.S Nagar has also licensed out some technologies developed at different Centres/Departments of the Institute.

| Courses | Disciplines | No. Of Seats' |
|--------------|----------------------------|---------------|
| M.S. (Pharm) | Medicinal Chemistry | 26 |
| | Natural Products | 13 |
| | Traditional Medicine | 5 |
| | Pharmaceutical Analysis | 9 |
| | Pharmacology it Toxicology | 18 |
| | Regulatory Toxicology | 9 |
| | Pharmaceutics | 20 |
| | Pharmacoinfonntatics | 17 |
| | Biotechnology | 35 |

| | | |
|----------------|---|----|
| M.Pharm | Pharmacy Practice | 9 |
| | Clinical Research | 9 |
| | Pharmaceutical Technology (Formulation) | 7 |
| M.Tech (Phann) | Phannaceutical Technology (Process Chemistry) | 17 |
| | Pharmaceutical Technology (Biotechnology) | 11 |
| M.B.A. (Pharm) | Pharmaceutical Management | 46 |

NIPER, AHMEDABAD

| Courses | Disciplines | No of Seats' |
|--------------|---------------------------|--------------|
| M.S.(Pharm) | Biotechnology | 13 |
| | Medicinal Chemistry | 22 |
| | Medical Devices | 15 |
| | Natural Products | 10 |
| | Pharmaceutical Analysis | 25 |
| | Pharmacology & Toxicology | |
| M.BA (Pharm) | Pharmaceutics | 25 |
| | Pharmaceutical Management | 20 |

Note: Seats may subject to change: inducing EWS

NIPER, GUWAHATI

| Courses | Disciplines | No of Seats |
|-------------|--|-------------|
| M.S.(Pharm) | Pharmacology & Toxicology | 15 |
| | Biotechnology | 10 |
| | Pharmaceutics | 18 |
| | Pharmaceutical Analysis | 19 |
| | Medicinal Chemistry | 11 |
| M.Pharm | Pharmacy Practice | 10 |
| | Pharmaceutical Technology (Formulations) | 11 |

Note : Seats may subject to change 'Including

NIPER, HAJIPUR

| Courses | Disciplines | No. of Seats* |
|-------------|---------------------------|---------------|
| M.S.(Pharm) | Biotechnology | 18 |
| | Pharmacology & Toxicology | 18 |
| M.Pharm | Pharmacy Practice | 18 |

Note: Seats may subject to change *Including EWS

NIPER, HYDERABAD

| Courses | Disciplines | No of Seats* |
|-----------------|---|--------------|
| MS (Pharm) | Medicinal Chemistry | 22 |
| | Pharmaceutical Analysis | 22 |
| | Pharmacology and Toxicology | 17 |
| | Pharmaceutics | 27 |
| | Regulatory Toxicology | 17 |
| M. Tech (Pharm) | Pharmaceutical Technology (Process Chemistry) | 17 |
| M.B.A (Pharm) | Pharmaceutical Management | 38 |

Note: Seats may subject to change *Including EWS

NIPER KOLKATA

| Courses | Disciplines | No of Seats* |
|-------------|-----------------------------|--------------|
| M.S.(Pharm) | Medicinal Chemistry | 20 |
| | Natural Products | 07 |
| | Pharmacoinformatics | 05 |
| | Pharmacology and Toxicology | 20 |
| | Pharmaceutics | 11 |

Note: Seats may subject to change *Including EWS

NIPER, RAEBARELI

| Courses | Disciplines | No of Seats* |
|-------------|---------------------------|--------------|
| M.S.(Pharm) | Medicinal Chemistry | 25 |
| | Pharmaceutics | 20 |
| | Pharmacology & Toxicology | 20 |
| | Regulatory Toxicology | 12 |

Note: Seats may subject to change: * Including EWS

Eligibility

The candidate should have passed the qualifying degree with a minimum of 60% marks in aggregate or CGPA of 6.75 on a 10 point scale wherever grades are awarded or equivalent (Percentage of marks or CGPA so calculated will be based on the norms fixed by the concerned University/Institution or aggregate marks or CGPA scored by the candidate for all years of the qualifying degree, in case University/Institution has not prescribed any norm for calculating such percentage or CGPA). It is mandatory to bring GPAT/GATE/NET score card at the time of counseling/Group Discussion and Interview. Further GPAT/GATE/NET is an essential qualification for all programme [including M.B.A.(Pharm.)]

ONLINE ENTRANCE TEST



There will be a common paper for all Masters Programs including M.B.A. (Pharm.). The question paper will consist of 200 objective multiple type choice questions. The level of questions will be of B. Pharm. and M. Sc (relevant field). A few questions will be from general aptitude. Duration of the examination will be 2 hours.

There will be negative marking in the on line test. 25% marks will be deducted for each wrong Answer. The result of the on line test will be declared on the official Website of the Institute (www.niper.gov.in)

Well questions will be very easy so no need to go in depth of the topic, which clearly indicates that time management, is very important to get success in NIPER entrance. Understanding the question quickly is very important to pick the right choice. It is wise to leave the question if you do not know the answer perfectly. Chemistry, Pharmacology, Biotechnology, Pharmaceutical analysis are the core subjects from which questions are being asked. There is no need to worry about Pharmacognosy or forensic pharmacy (Pharmaceutical Judispudence) as in GPAT, basic concepts based questions are asked. M. Pharm branches and M.B.A. has a common entrance paper. So read some General knowledge, Pharma management and Pharma News aspects also.

There is no official syllabus prescribed by NIPER institute for the entrance examination. Here we are providing the expected syllabus by the help of our TEAM and last year NIPER students. Our materials and model question papers help to review the subject and practice time management. If you can secure a good rank in NIPER entrance you should plan and prepare accordingly. Let us now see about subject wise preparation.

This syllabus is just like **GPAT** entrance but more specific in Basic Chemistry instead of *medicinal chemistry* and many more subject, get the Syllabus from the website www.gdc4gpat.com , www.gdconlinetest.in for detail.

Specialization subjects: What to study?

ORGANIC CHEMISTRY AND BULK DRUGS (PHARMACEUTICAL TECHNOLOGY)

1. IUPAC nomenclature, R and S nomenclature, E and Z isomerism, atropisomerism, Conformations laws.
2. Hybridization, aromaticity, Huckel's rule reaction mechanisms- Electrophilic, Nucleophilic, SN1, Sn2, SNi, Elimination E1, E2 etc
3. Ester hydrolysis, Aac1 Aac2..all eight mechanisms (Jerry march) Markovnikov's rule with examples, Bredt's rule, Stereoselectivity, stereospecificity, regioselectivity, chemoselectivity, chirality, stereochemistry, conformations, rearrangements, acids and bases.
4. Imine-enamine Tautomerism, keto-enol tautomerism, pericyclic reactions, racemic mixture, Resolution methods.
5. Amino acids, proteins, various methods for amino acid detection, Ninhydrin test, peptide sequencing, structures of amino acids, essential and nonessential amino acids.
6. Introduction to thermal methods of analysis like, TGA, DSC, DTA etc.
7. Carbohydrates, osazone test, mutarotation, etc.
8. Various Heterocycles, Heterocycle synthesis, reactions.
9. Introduction to Redox reactions.
10. Spectroscopy: (basics specially): Very very IMP topic. NMR, and C-NMR ranges from Morrison & Boyd or Pavia Mass -Basic concepts about various peaks M+1, molecular ion, base peak etc. (Silverstein) IR - Frequencies of various groups specially carbonyls. UV.
11. Chromatography: Details of every chromatographic method.
12. Reaction kinetics, first second third and pseudo first order reactions, radio labeling for determination of mechanism.
13. Common condensation reactions like Aldol, Claisen, Perkin, Dickmann, Darzen etc.
14. Other reactions like Cannizzaro's reaction, Prins reaction, especially reactions of carbonyl compounds.
15. Oxidizing & reducing agents like sodium borohydride, chromic acid & their use in named reactions
16. Stereochemistry chiefly very very very important.
17. UV ranges, IR delta values, NMR peaks, Numericals

NATURAL PRODUCTS

In natural products more stress should be given on phytochemistry part rather than biological aspects.

1. Methods of extraction, isolation and characterization of natural products. Various separation techniques used for isolation of natural products.
2. Biosynthetic pathways.
3. Primary metabolites, their examples.
4. Secondary metabolites, various classes of secondary metabolites (e.g. Alkaloids, glycosides, tannins, lignans, saponins, lipids, flavonoids, coumarins, anthocyanidines etc.). Here most imp. Part is chemistry of these classes.
5. Important therapeutic classes: antidiabetics, hepatoprotectives, immunomodulators, nutraceuticals, natural products for gynecological disorders, anti-cancer, anti-viral (mainly anti-HIV), adaptogens etc.
6. Dietary antioxidants, Marine natural products, Plant growth regulators.
7. Spectroscopy: Basic concepts of UV, NMR, IR and Mass spectroscopy. Give more stress on IR and NMR.
8. Stereochemistry: Basic concepts.
9. Fischer, sawhorse and newman projection formulas.
10. Biological sources of important classes of natural products. (Selected ones only)
11. Standardization of natural products.
12. What is difference between natural products and pharmacognosy?
13. Natural products as anti viral & anti cancer agents with examples.

PHARMACOLOGY AND TOXICOLOGY

1. Pharmacokinetics, pharmacodynamics, pharmacological effect, desired, undesired, toxic, adverse effects.
2. Bioavailability, bioequivalence, various factors of ADME. (From Bramhankar)
3. Drug metabolism: various pathways and other details.
4. Drug interactions, agonist, antagonist, partial agonist, protein binding, drug distribution, distribution volume, excretion pathways etc.
5. Pharmacological screening: general principles, various screening models, screening methodologies (in vitro and in vivo tests).
6. Mechanism of drug action, drug-receptor interaction.
7. Various adrenergic, cholinergic and other receptors
8. Detailed study of CNS pharmacology
9. Study of basis of threshold areas of work in NIPER in pharmacology dept. mentioned in brochure.
10. Diseases: study of the pharmacology of the diseases and drugs used with mode of action especially of diabetes, malaria, leishmaniasis, TB, hypertension, myocardial ischemia, inflammation, and immunomodulation.
11. Chemotherapy and pathophysiology- knowledge of antibiotics, their mode of action and the microorganisms responsible for various common diseases.
12. Bioassay methods, various requirements. Brief knowledge of the statistical tests.
13. Basic mechanism of all drugs with major side effects & classification.
14. Receptors classification with examples.

PHARMACEUTICS AND FORMULATION (PHARMACEUTICAL TECHNOLOGY)

1. Drug delivery systems (DDS): NDDS models, osmotic pumps, various release patterns **eg.** Controlled release, delayed release. Sustained release etc. order of release. Oral controlled DDS, factors affecting controlled release.
2. Carriers in DDS: polymers and their classification, types, carbohydrates, surfactants, proteins, lipids, prodrugs etc.
3. Transdermal drug delivery systems (TDDS): principles, absorption enhancers, evaluation of TDDS.
4. Parenterals: requirements, advantages, disadvantages, release pattern, route of drug delivery.
5. Drug targeting: microspheres, nano particles, liposomes, monoclonal antibodies, etc.
6. Preformulation detailed.
7. Complexation, solubilization, polymerization, viscosity measurements.
8. Dosage form development- stages, implications of dosage form.
9. Additives of formulation, types, examples, advantages, disadvantages, drug excipient interaction, incompatibility, various types of incompatibilities.
10. Dosage forms: solid (tablets, capsules, pills etc), liquid (emulsion, suspension etc), sterile (injectables), aerosols. Principles, advantages, disadvantages and problems.
11. Coating - in detail
12. Packaging: materials, labeling etc. Types of containers (Tamper-proof containers)
13. In process controls, Product specification, documentation.
14. Compartmental modeling. (From Bramhankar)
15. Bioavailability, bioequivalence studies. Methods of improvement of oral bioavailability.
16. Evaluation of formulation, principles and methods of release control in oral formulations.

PHARMACEUTICAL ANALYSIS

1. Stability testing of pharmaceuticals, various stability tests, kinetic studies, shelf life determination, thermal stability, formulation stability.
2. Various analytical techniques
3. Tests: physical and chemical tests, limit tests, microbiological tests, biological tests, disintegration and dissolution tests.
4. Spectroscopic methods; UV, NMR, IR, MS, GCMS, FT-IR, FT-NMR, ATR (Attenuated Total Reflectance), FT-Raman- basics and applications.
5. Thermal techniques: DSC, DTA, TGA, etc.
6. Particle sizing: law of diffraction.
7. Electrophoresis: capillary electrophoresis.
8. Chromatography- detailed.
9. QA and QC: GLP, TQM, ISO system.
10. Preformulation, cyclodextrin inclusion compounds
11. Solubility: pH, pka, surfactant HLB values, Rheology.
12. Crystallinity, polymorphism, solvates and hydrates, crystal habits, porosity, surface area flow properties.
13. Dosage forms, Stages of dosage form development
14. Osmolality, osmolarity, osmotic pressure, conductivity, Preservatives, Media for bioassay.

PHARMACEUTICAL BIOTECHNOLOGY

- Protein** : Structure, Allosteric proteins, Amino acid analysis & Protein sequencing (Sanger's, etc from **zubey**), peptide synthesis. (**Lehninger**)
- Enzyme** : Active site, Functional groups, Enz-Sub complex, Co-factors, Michaelis-menten eqⁿ, Enzyme inhibition, Isoenzymes, Allosterism, Mechanism of action of some selected enzyme (Chymotrypsin, Trypsin). (Read from **Zubey**)
- DNA replication, Transcription and Translation**
- Recombinant DNA technology** : Bacterial transformation, transduction, etc. PCR, Southern, Northern blotting, Plasmid-Vector concept. (Read **Microbiology-Tortora** chapter on r-DNA technology).
- Immunology** : Concepts of Innate/ Adaptive/ immunity, epitope. Hypersensitivity reactions. ELISA, Immunofluorescence tests.
- Microorganism for** amino acids, baker's yeast, ethanol, acetone-butanol, citric acid, lactic acid. Also, antibiotics and vitamin producing organism.

PRACTICE OF PHARMACY

The best part for the preparation for this best reference for this would be Remington's Pharmaceutical Sciences. This branch is quite new here, so till dates students of branch used to do case study of prescriptions in Fortis hospital, PGI Chandigarh and govt. college chd. This is much like pharmacology and drug-drug interactions and different interactions are emphasized. Diabetes, heart diseases are main area of study.

PHARMACOINFORMATICS

Terminologies related with new emerging informatics e.g. proteomics, genomics, QSAR (2D, 3D, regression, correlation).

References:

Foye, Williams and Lemke, Medicinal chemistry, 5th/6th edition, chapter 1-6.

(Computational drug design and molecular modeling).

nal drug design and molecular modeling).

OTHERS (MOST IMPORTANT & SCORING)

Statistics, general mathematics and aptitude questions. Use MBA entrance test books like CET or CAT in MBA. Additionally some **General awareness questions (synonyms)-10-15 questions**

Latest drugs banned & approved in US market, read latest journals, internet for this-5-6 questions

Ramchandran plot & Bredt & Markonikov rule with examples-3 questions

Complete basics of organic chemistry.

Advancement in analytical chemistry.

NIPER'S THRUST AREAS ARE

Microbial and viral diseases: Yeast, and fungi.

Parasitic and tropical diseases: Malaria, Leishmaniasis, amoebiasis, cancer, aids etc.

Metabolic Disorders: Diabetes Strokes

Oxidizing, reducing agents & Stereochemistry

Organic reactions & mechanisms

Peptide and carbohydrate chemistry.

Genomics and proteomics: yeast and fungi

Hormonal disorders: Sex & TSH related diseases

ENTRANCE PATTERN

You have answer 200 questions in 120min.

But remember its not tough job you can attempt all questions. Only don't waste time on tough question more than 45sec. Most of the questions will take 5sec. to attempt. Try to manage time and success is yours.

Well we repeat again **no need to know everything very thoroughly but go through each bit and piece at least once. Basic conceptual and logical questions are there don't go in more depth.**

Lastly, remember

Men often believe what they believe themselves to be.

If I believe I can not do something, it makes me incapable of doing it.

But when I believe I can, and then I acquire the ability to do it even if I didn't have it in the beginning.

So think that you are destined to be in NIPER and rest assured you will be part of it.

ALL THE BEST

Best Exam Preparation for You. Start Now !!!

IMPROVE YOUR PERFORMANE BY 15-20 %

GPAT Discussion Center announces launch of NIPER-2021 Online Test Series - India's most innovative online practice mock test series for NIPER JEE aspirants for exact simulation of the NIPER exams. Boost your exam preparation with GDC to crack the NIPER-2021 Select your Package and get started.

This Test is 1st ever of it's kind which shall guide the students for preparing their course on "Revision strategy" through topic wise personalize and comparative analysis. It may helps you in focusing your last time preparation.

U can join the Test any time as per the scheduled time of examination.

Visit- www.gdc4gpat.com, www.gdconlinetest.in

See the brochure for Syllabus and details

Helpline Numbers:- 8602227444, 9770765680

NIPER All India Online Test Series

Visit:- www.gdconlinetest.in

The test series is designed for the preparation of NIPER and promises to deliver its finest in the Exams.

Test will be conducted till NIPER-2021

YOU MAY JOIN THE TEST SERIES ANY TIME AS PER THE EXAMINATION SCHEDULE, STUDENTS MAY ENQUIRE AT ANY TIME ABOUT THE COMPLETE DETAILS

Question In Topic wise and Subject wise, Minor Test is 100, In Mock Test -200

Place of test- Your College/Institution's Net, Any Cyber Cafe or wherever internet facility can be available.

Day & Timing of Test: Any Time , Any Day or as per the schedule Till NIPER-2021

Negative Marking : Same as NIPER-2021 (0.25 marks deduction on every wrong answer)

You can avail these papers any time as well as at anyplace in laptop, Desktop or in Mobile phones but we recommend it take it in Laptop or desktop.

There is no schedule. You can make your own schedule, however for classroom students test schedule will be given to the students on respective centers.

Result and secured Rank of test will be displayed after completion of the every test on the screen.

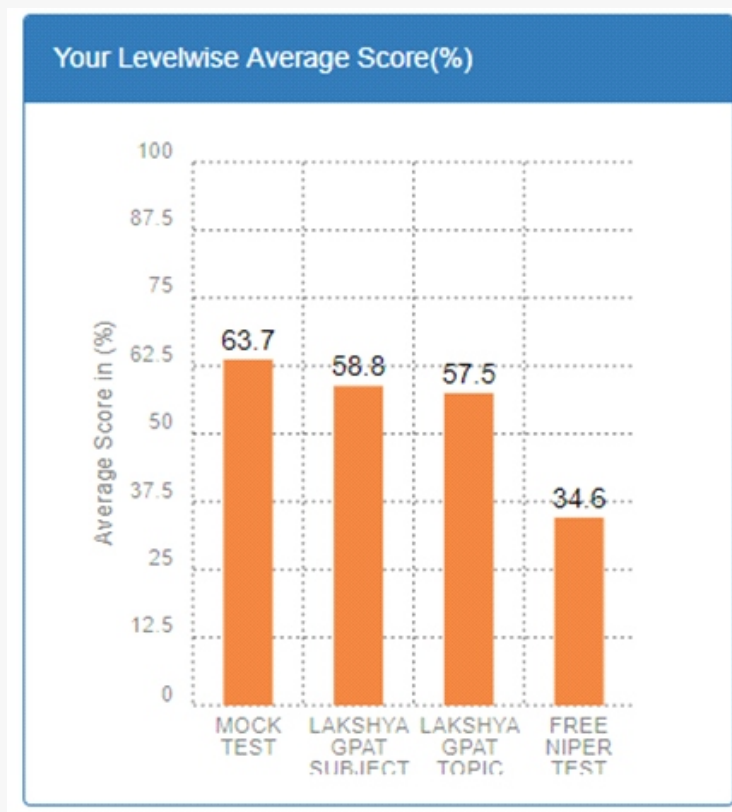
I you have any query or confusion after TEST SERIES than you can ask with us BY *SENDING A MAIL TO US* on gdcgpat037@gmail.com



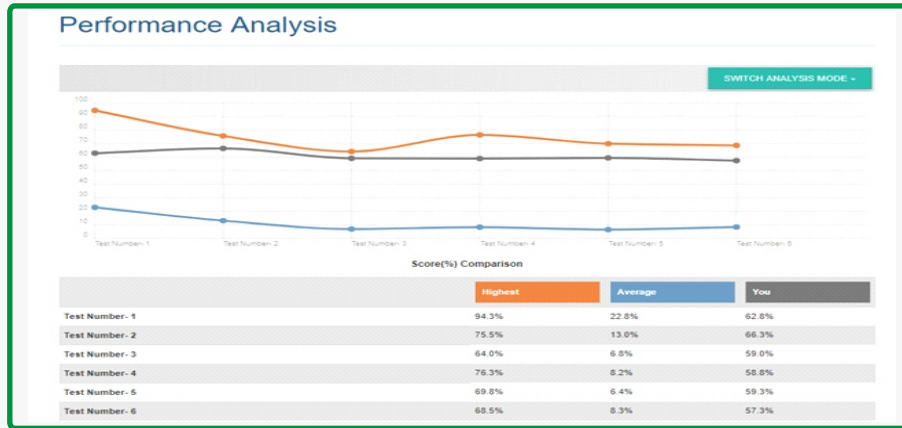
PERFORMANCE ANALYSIS OF STUDENT WITH TOPPER'S

Students can have difficulty and topic wise analysis after finishing the exam. It gives clear picture about the strong and weak topics and student can compare their result with toppers.

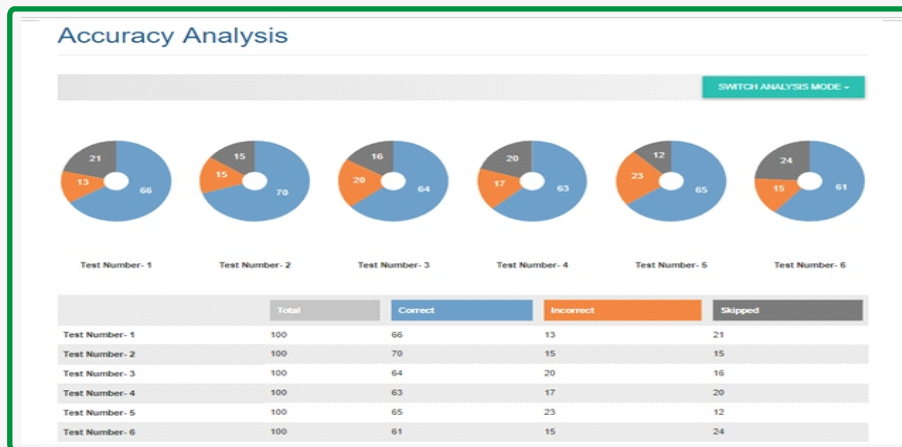
1. Level wise Individual Average Score



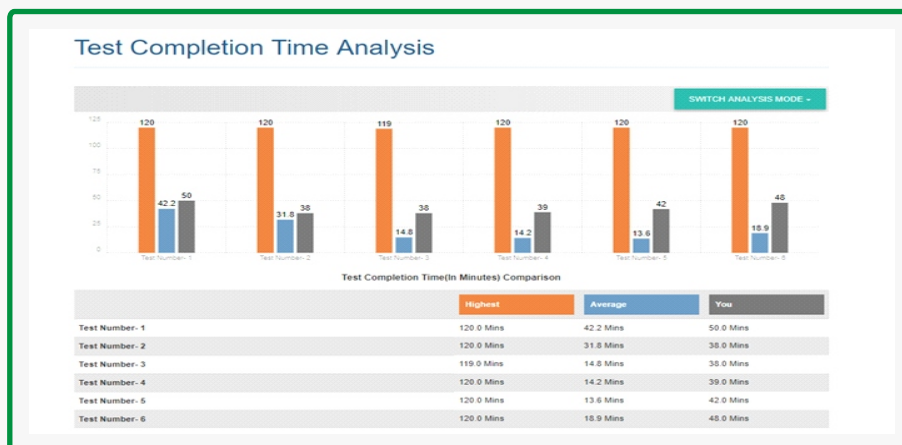
2. Performance analysis of student



3. Accuracy Analysis



4. Test Completion Time analysis



ACHIEVE NIPER - 2021

GPAT All India Online Test Series

IMPROVE YOUR PERFORMANE BY 15-20 %

Visit:- www.gdconlinetest.in

The test series is designed for the preparation of NIPER-2021 and promises to deliver its finest in the exams.

TOTAL 50 TEST WILL BE CONDUCTED

15 SUBJECT WISE TEST

12 MINOR TEST

05 MAJOR TEST

18 PREVIOUS YEAR PAPER (2003-2020)



TEST SERIES SYLLABUS

Gpat Discussion Centre All India Test Series- 2021

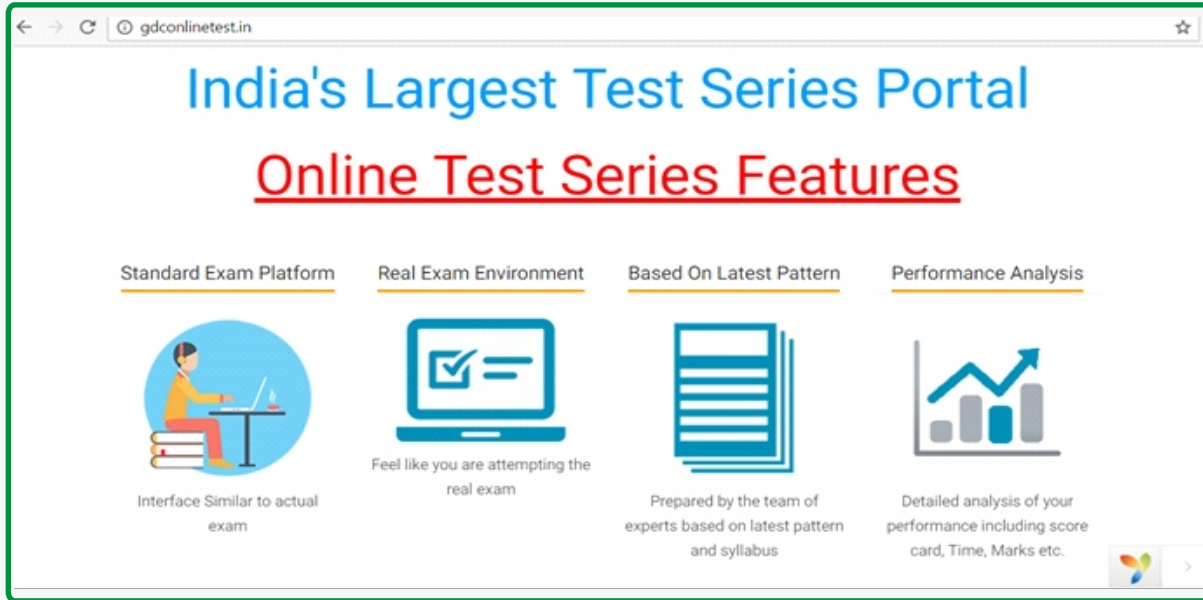
| Test Type | Test Description | Topic | NO. of Question |
|--------------------------|------------------|---|-----------------|
| SUBJECT WISE TEST | | | |
| SUBJECT WISE TEST | Test Number-1 | Pharmacology | 100 |
| | Test Number-2 | Pharmacology | 100 |
| | Test Number-3 | Pharmaceutics | 100 |
| | Test Number-4 | Pharmaceutics | 100 |
| | Test Number-5 | Physical chemistry, Inorganic Chemistry | 100 |
| | Test Number-6 | Medicinal Chemistry | 100 |
| | Test Number-7 | Microbiology and Biotechnology | 100 |
| | Test Number-8 | Pharmacognosy | 100 |
| | Test Number-9 | Pharmaceutical Analysis | 100 |
| | Test Number-10 | Pharmaceutical Analysis | 100 |
| | Test Number-11 | Biochemistry | 100 |
| | Test Number-12 | Biochemistry | 100 |
| | Test Number-13 | Organic Chemistry | 100 |
| | Test Number-14 | Organic Chemistry | 100 |
| | Test Number-15 | Organic Chemistry | 100 |
| MINOR TEST | | | |
| MINOR TEST | Test Number-16 | Complete Syllabus | 100 |
| | Test Number-17 | Complete Syllabus | 100 |
| | Test Number-18 | Complete Syllabus | 100 |
| | Test Number-19 | Complete Syllabus | 100 |
| | Test Number-20 | Complete Syllabus | 100 |
| | Test Number-21 | Complete Syllabus | 100 |
| | Test Number-22 | Complete Syllabus | 100 |
| | Test Number-23 | Complete Syllabus | 100 |
| | Test Number-24 | Complete Syllabus | 100 |
| | Test Number-25 | Complete Syllabus | 100 |
| | Test Number-26 | Complete Syllabus | 100 |
| | Test Number-27 | Complete Syllabus | 100 |
| MAJOR TEST | | | |
| | Test Number-28 | Complete Syllabus | 200 |
| | Test Number-29 | Complete Syllabus | 200 |

| | | | |
|--------------------------------|-----------------------|--------------------------|------------|
| | Test Number-30 | Complete Syllabus | 100 |
| | Test Number-31 | Complete Syllabus | 100 |
| | Test Number-32 | Complete Syllabus | 100 |
| PREVIOUS YEAR QUESTION | | | |
| PREVIOUS YEAR PAPER | Test Number-33 | NIPER-2003 | 100 |
| | Test Number-34 | NIPER-2004 | 100 |
| | Test Number-35 | NIPER-2005 | 100 |
| | Test Number-36 | NIPER-2006 | 100 |
| | Test Number-37 | NIPER-2007 | 100 |
| | Test Number-38 | NIPER-2008 | 100 |
| | Test Number-39 | NIPER-2009 | 100 |
| | Test Number-40 | NIPER-2010 | 200 |
| | Test Number-41 | NIPER-2011 | 200 |
| | Test Number-42 | NIPER-2012 | 100 |
| | Test Number-43 | NIPER-2013 | 100 |
| | Test Number-44 | NIPER-2014 | 100 |
| | Test Number-45 | NIPER-2015 | 150 |
| | Test Number-46 | NIPER-2016 | 100 |
| | Test Number-47 | NIPER-2017 | 100 |
| | Test Number-48 | NIPER-2018 | 100 |
| Test Number-49 | NIPER-2019 | 100 | |
| Test Number-50 | NIPER-2020 | 100 | |

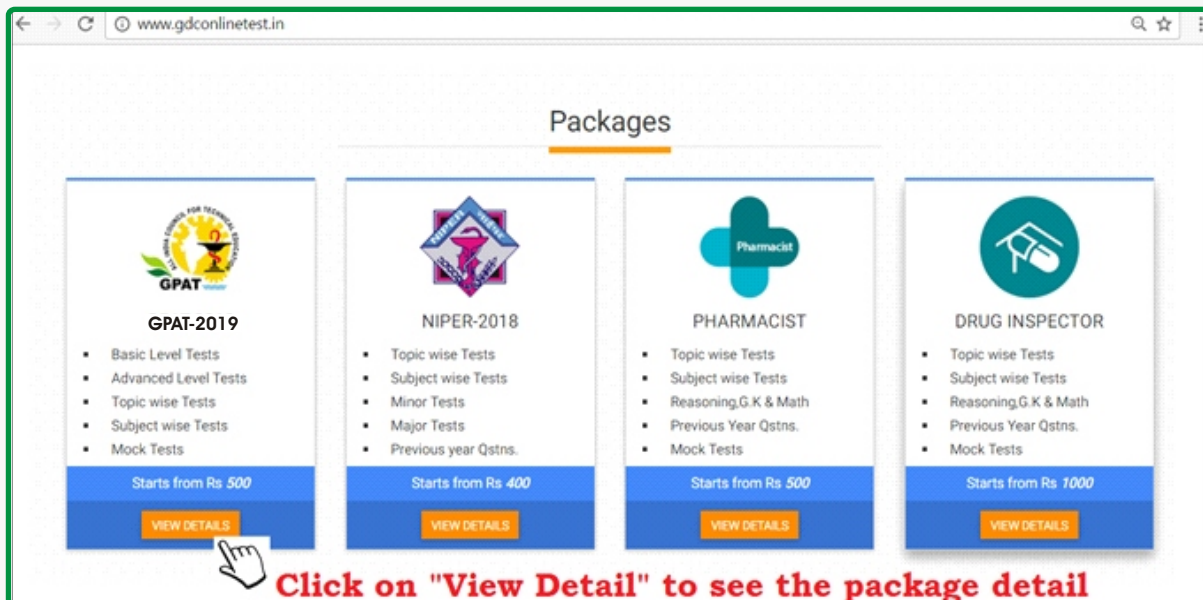


GENERAL INSTRUCTION TO JOIN THE TEST

1. Login to website www.gdconlinetest.in

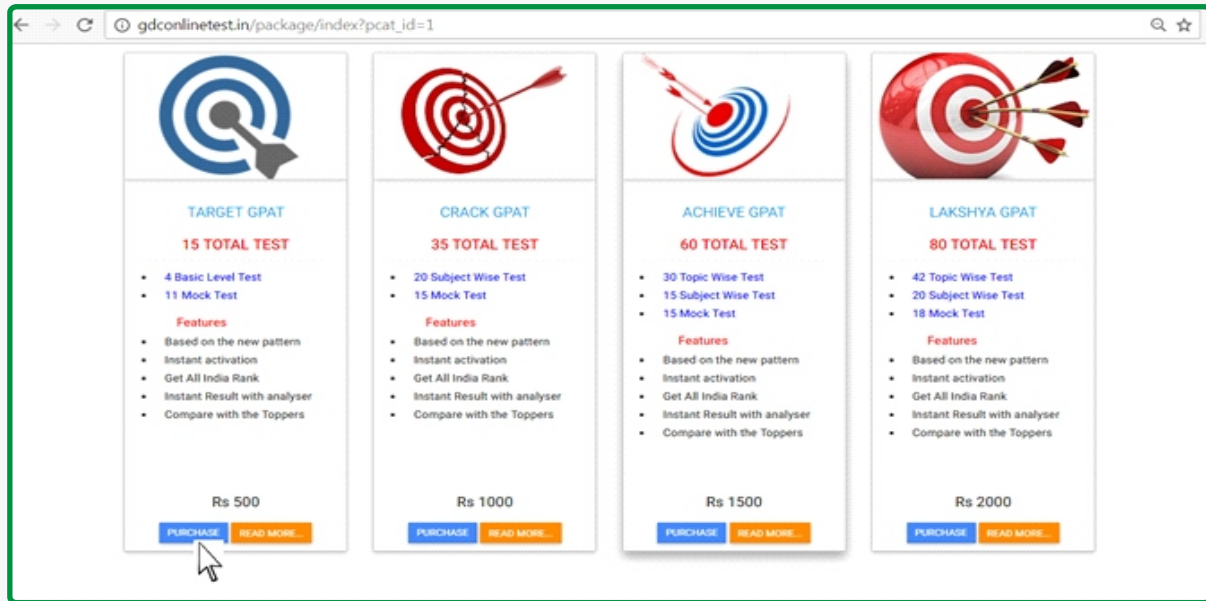


2. Choose the Exam you want to subscribe



Click on "View Detail" to see the package detail

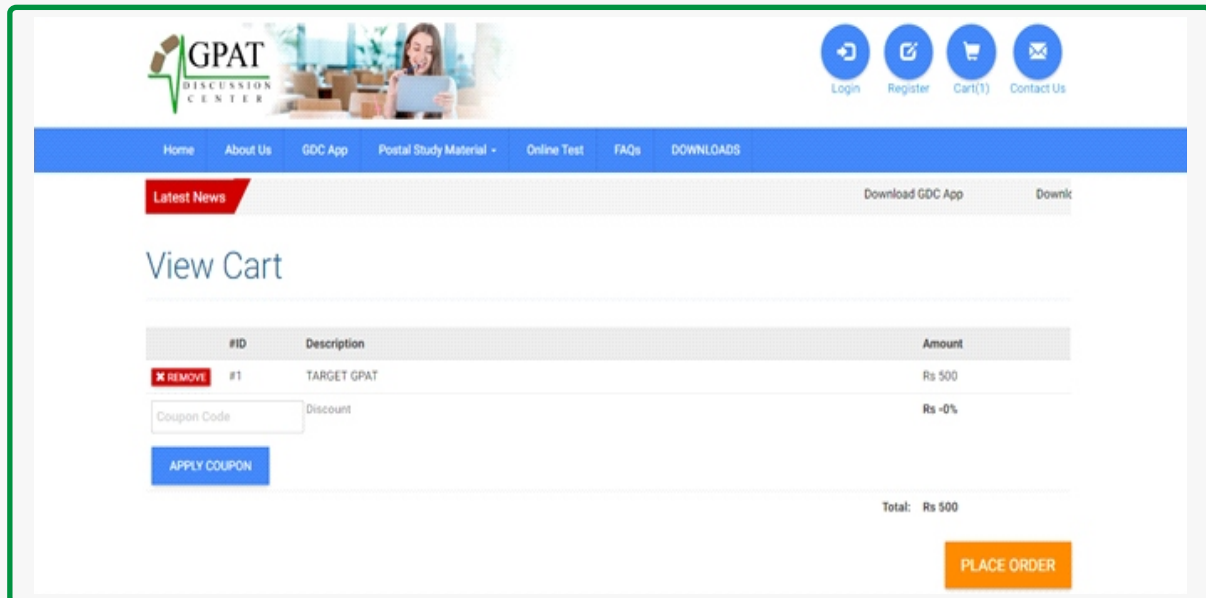
3. Select the package according to your suitability and click on “Purchase” button to further process; u can see the Test detail by click on “Read More” button.



The screenshot shows a webpage with four package cards. Each card includes an icon, a title, total tests, a list of tests, features, and a price. A mouse cursor is pointing at the 'PURCHASE' button of the 'TARGET GPAT' package.

| Package Name | Total Tests | Price |
|--------------|-------------|---------|
| TARGET GPAT | 15 | Rs 500 |
| CRACK GPAT | 35 | Rs 1000 |
| ACHIEVE GPAT | 60 | Rs 1500 |
| LAKSHYA GPAT | 80 | Rs 2000 |

4. Place Order, If you have any “**COUPON CODE**” then place it for discount otherwise place order without putting Coupon Code for proceed.

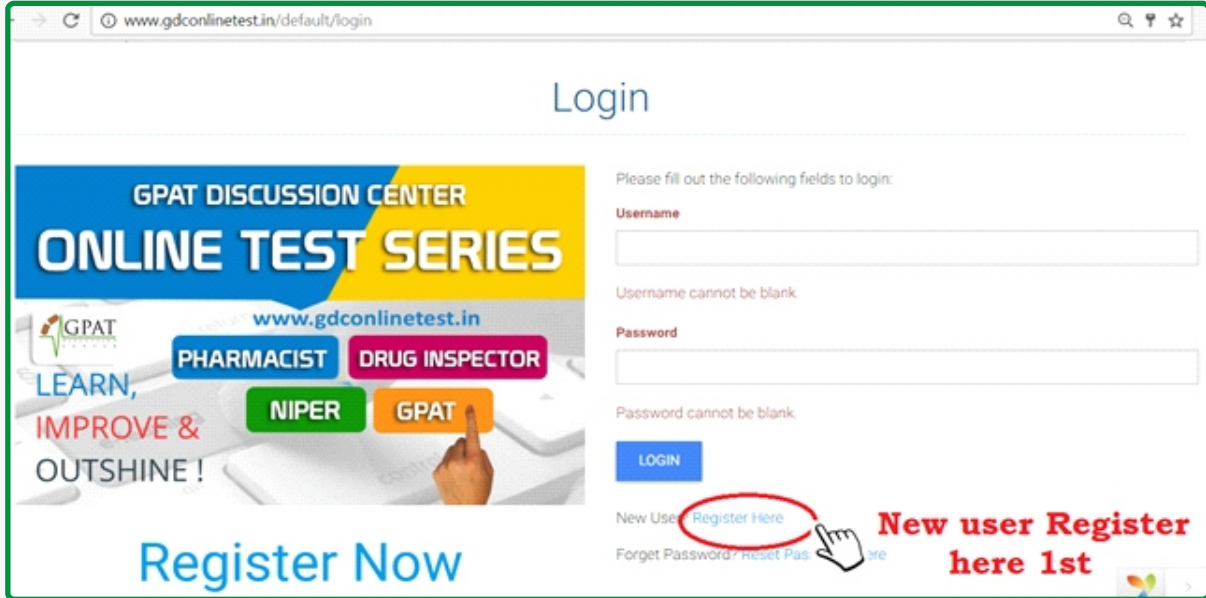


The screenshot shows the 'View Cart' page. It displays a table with one item: 'TARGET GPAT' for Rs 500. There is a 'COUPON CODE' input field and an 'APPLY COUPON' button. The total amount is Rs 500. A 'PLACE ORDER' button is visible at the bottom right.

| #ID | Description | Amount |
|--|-------------|--------|
| X REMOVE #1 | TARGET GPAT | Rs 500 |
| <input type="text" value="Coupon Code"/> | Discount | Rs -0% |

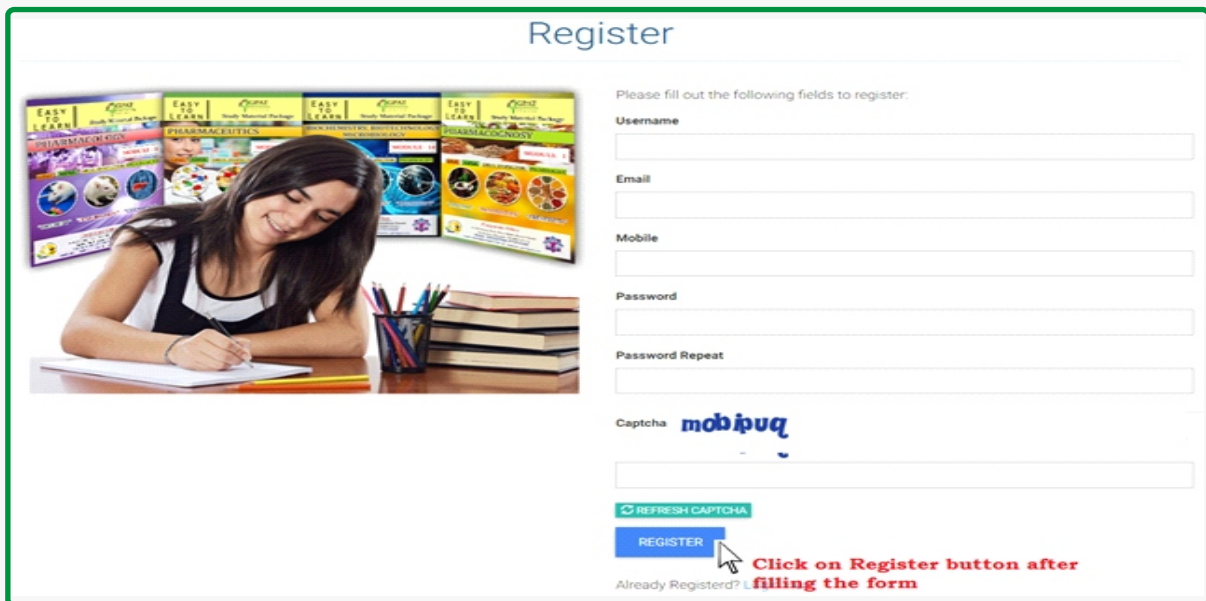
Total: Rs 500

5. Register Now : New users click on the button “Register Here”



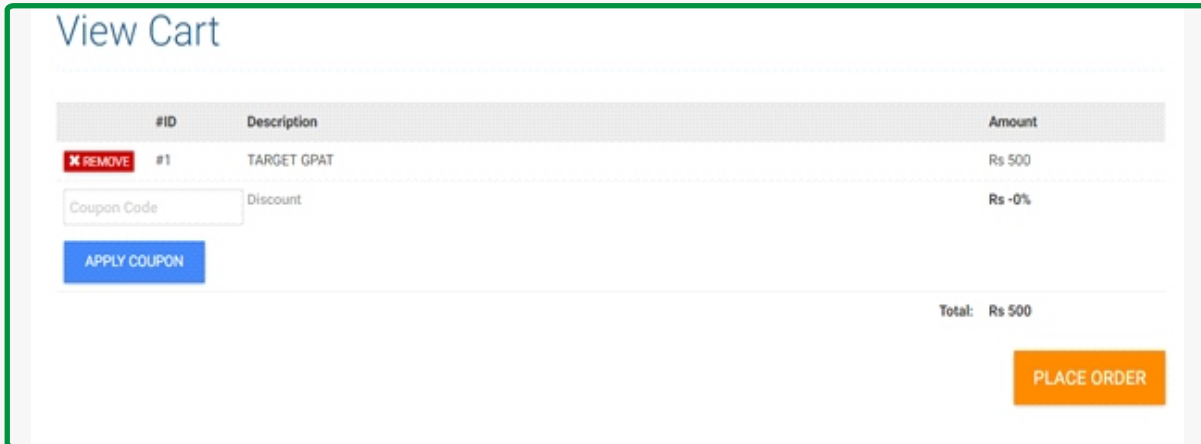
The screenshot shows the login page of the GPAT Discussion Center. On the left, there is a banner for the 'ONLINE TEST SERIES' with buttons for 'PHARMACIST', 'DRUG INSPECTOR', 'NIPER', and 'GPAT'. A 'Register Now' button is visible at the bottom of the banner. On the right, the login form is titled 'Login' and includes fields for 'Username' and 'Password'. Below the password field is a 'LOGIN' button. A red circle highlights the 'Register Here' link, which is also pointed to by a mouse cursor. A red text overlay says 'New user Register here 1st'. There are also links for 'New User?' and 'Forgot Password? reset Password'.

6. Register: Fill out the following fields to register



The screenshot shows the registration page of the GPAT Discussion Center. On the left, there is an image of a student studying at a desk with books and a pen. On the right, the registration form is titled 'Register' and includes fields for 'Username', 'Email', 'Mobile', 'Password', 'Password Repeat', and a 'Captcha' field. Below the captcha field is a 'REFRESH CAPTCHA' button and a 'REGISTER' button. A red text overlay says 'Click on Register button after filling the form'. There is also a link for 'Already Registered? Login'.

7. Now your account has been successfully created. Now place order and make payment to start the Test.

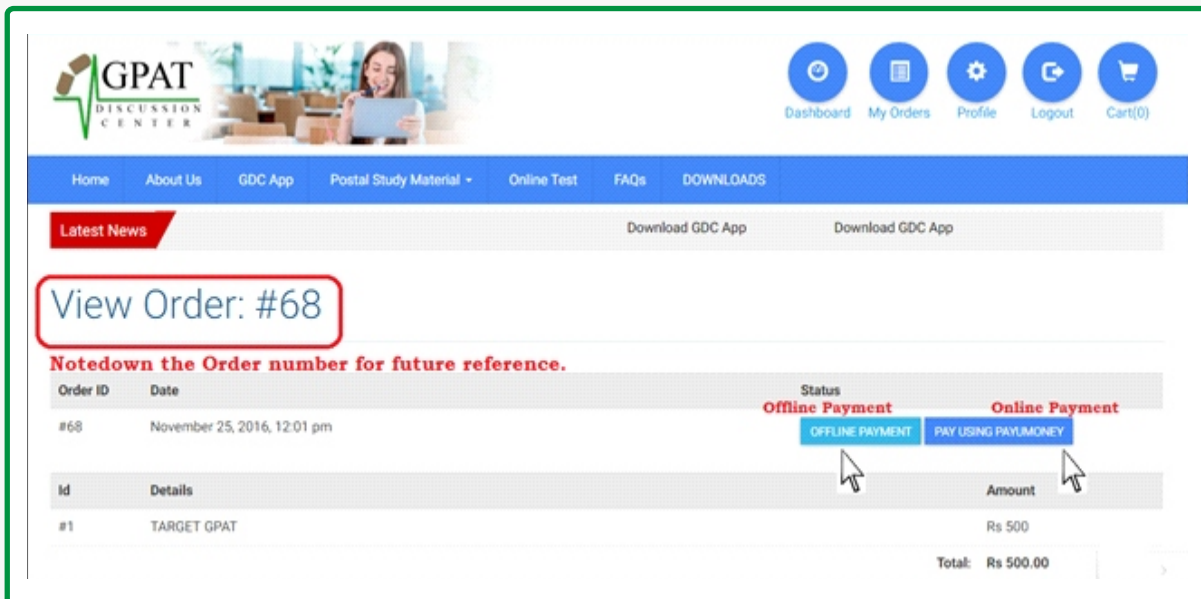


View Cart

| #ID | Description | Amount |
|---------------------------|-------------|--------|
| REMOVE #1 | TARGET GPAT | Rs 500 |
| Coupon Code | Discount | Rs -0% |

Total: Rs 500

8. Two option for the payment is there one is offline payment and other one is online payment by Debit or Credit Card.



View Order: #68

Notedown the Order number for future reference.

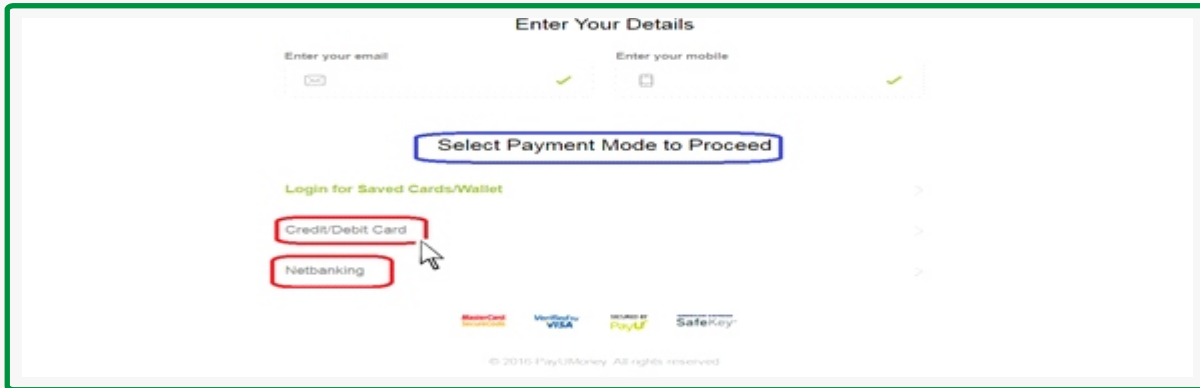
| Order ID | Date | Status |
|----------|-----------------------------|-----------------|
| #68 | November 25, 2016, 12:01 pm | Offline Payment |

| Id | Details | Amount |
|----|-------------|--------|
| #1 | TARGET GPAT | Rs 500 |

Total: Rs 500.00

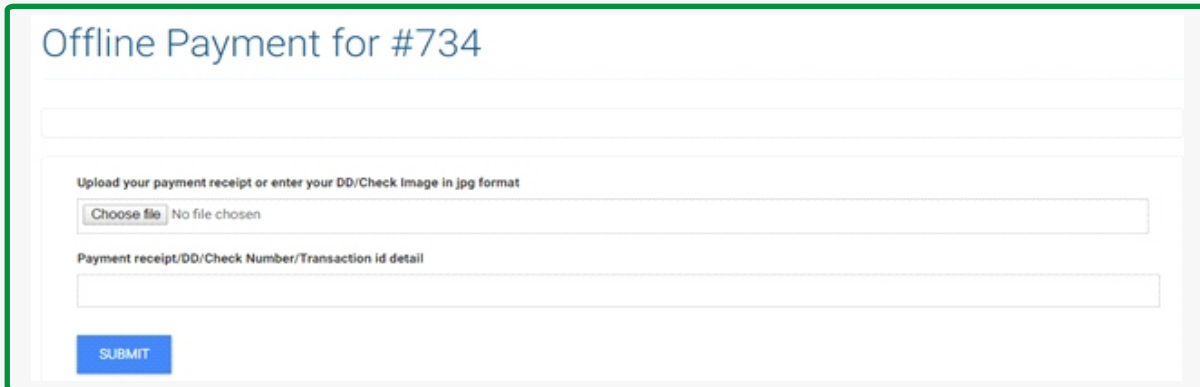
9. Enter your Detail for online Payment

Click on Debit/Credit Card or Netbanking for payment of Course fee.

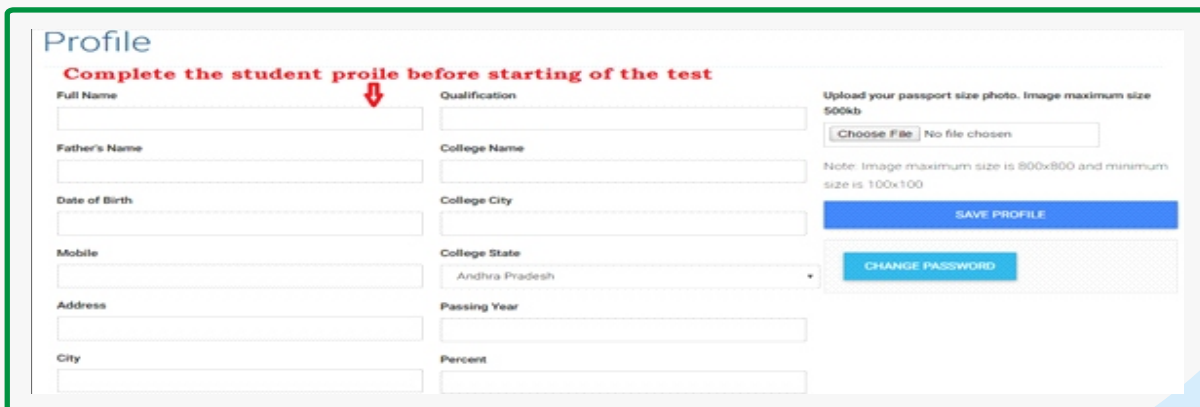


**10. In case of Offline Payment,
Upload the Payment receipt
Payment receipt detail**

After submitting, send a request mail gdcgpat037@gmail.com for the approval of your account.




**11. After successful approval now time to login to attempt the test.
Login you account by your approved user name and password**



12. Attempt Test

Dashboard

Charts



A line chart with a vertical axis from 0 to 100 in increments of 25. A single data point is plotted at 4.165, labeled 'BASIC'.

Level and Tests

GPAT-2019

BASIC

MOCK TEST

13. Read all instruction before start of the test

Test Number- 5

| Test Name | Duration | Total Marks | Questions |
|----------------|----------|-------------|-----------|
| Test Number- 5 | 180 Mins | 500 | 125 |

Description

Welcome to the GDC Online Test series Portal

Read the following Description carefully

- This online test containing 125 Questions.
- Marking Scheme)
 - For each correct answer, you will be awarded 4(four) marks
 - For each wrong answer, you will be deducted 1(one) marks
 - For each un-attempted question, you will be awarded 0(Zero) marks.
- You are requested to check internet and electric connection before starting the exam.

Instructions

These instructions should be followed by candidates while appearing in the Online Mode examination. This will familiarize candidates with the pattern / procedure of the examination.

General Instructions:

Please read the instructions carefully:

- The duration of the examination is 180 minutes.
- The clock will be set at the server. The countdown timer in the top right corner of screen will display the remaining time available for you to complete the examination. When the timer reaches zero examination will end by itself. You will not be required to end or submit your examination.

FREQUENTLY ASKED QUESTION(FAQ)

Ques. Why should I Purchase GDC Online Test

Ans.

1. Feel the Real Exam Environment through our test series.
Our all test containing everything which you are expected to face in exam
Exact Exam Pattern based questions
Test Series has been designed by the highly experience subject experts.
2. Review and enhance your performance
Check Your Score Card and rank Status
Performance Analysis
Detailed Solution of important question, Mail and Phone Support 24 X 7

Ques. Is there any free demo test

Ans. Yes, you can attempt one free demo test after that you decide to buy the online test.

Ques. How can I join Online Test Series?

Ans: You need to perform the following steps to join the GDC Online Test Series:
Select the Package you want to purchase, then register into GDC Test Series Portal (for new user), fill the complete form and proceed for the Online Payment.

- (a) then place the order by selecting any one payment option given below -
1. Online Payment- By debit card, credit card or by net banking
 2. By direct transfer the amount in our GPAT Discussion Center Account.

Bank Name : ICICI Bank

Name of the Account holder : Gpat Discussion Center Pvt. Ltd

Account Type : Current

Account Number : 734905500104

IFSC Code : ICIC0000282

- (b) Fill the details and submit it.
- (c) You will get a account activation mail before the online payment click on that mail activate it.
- (d) Click on Purchase Now button of selected exam and make payment.
- (e) In case of direct deposition in our account candidate should scan the counter slip of cash deposited in the ICICI Bank & attach it in offline payment option. You will get information regarding your pack activation by mail or SMS within 24 hours.
- (f) After Login you can edit your Profile, Change your Password any time.
- (g) Now go to Online Test Series, and start your Online Test.

Ques. How can I make payment to buy any study packages

Ans: You can pay via debit card, credit card, net banking. If you have not any of above service then you can deposit directly in our bank account. For more details call us : **9770765680, 8602227444.**

Ques. After purchasing the package, when my package will be activated?

Ans: After successful payment done online, then study package will be activated immediately. Now click on the packages and start your practice.

Ques. My Transaction failed but money deducted from my account. What should i do

Ans: Nothing to worry, Just send us a email at gdcgpat037@gmail.com with the proper detail of your transaction, and we will do the best solution for you. Your money is safe.

Ques. If I have paid two times or money deducted two times for a single product, now what should i do?

Ans: Don't worry ! Your one of the transaction amount gets refunded. In case this does not happen, you can contact us at **9770765680, 8602227444** or mail us at gdcgpat037@gmail.com. we will track your payment to get it refunded.

Ques. Can I download the test papers?

Ans: Test papers cannot be downloaded, but it is possible to refer the test papers/solutions whenever you like after login in GDC portal.

Ques. Will there be any fixed time schedule within which I have to take the exam?

Ans: There is no fixed time to appear for tests. Tests will be uploaded as per the given time table of institute and tests will be available up to Jan, 2021. You can appear for the tests as per your convenience within this time period.

Ques. Will I get the solutions to the questions asked in the online test?

Ans: Yes you will get answer of the every question after completion of the test.

Ques. What are the types of questions asked in NIPER-2021 ?

Ans: Multiple Choice Questions will be asked in NIPER-2021, and these types of questions are also included in NIPER -2021 Online Test Series.

Ques. What is the last date to enroll for Online Test Series?

Ans: U can enrol for the test any time.

Ques. Is there is any test center or can I give the test from anywhere?

Ans: No, test centers are not available for online test. You can appear for tests anytime, anywhere where internet facility is available. For classroom test series visit our website www.gdc4gpat.com

Ques. What if I accidentally close the exam window?

Ans: Your test will be resumed and you can start from the point where you had stopped.

Ques. Can I restart my test?

Ans: Yes, resume facility is available.

Ques. How can I get my rank?

Ans: All India Rank will be generated based on your performance in that particular test. By this a candidate can compare his performance with topper.

Ques. How many times a candidate can appear for the particular test?

Ans: A student can appear in any particular test only once.

Ques. Is there any fee refund process?

Ans: No, the fee is non refundable.

Ques. Do I need special Software to access tests?

Ans: No, you do not require any other software. You require system (Desktop, Laptop, Mobile) with proper internet connectivity.

Ques. How candidate's All India Rank is generated?

Ans: Candidate's Rank will be generated on a regular basis. It will be generated test-wise and the same will be updated automatically after submission of every test paper. Example :During the first month if 1000 students have appeared in paper-1, then candidate's rank will be generated among 1000 students. During the second month if 5000 candidates have appeared in paper-1, then candidate's rank will be generated among 5000 students.

Ques. Is it possible to refer the questions/solutions of test paper-1 which I had appeared 2 months back?

Ans: Questions along with the solutions will be available up to the last day. Whenever you want to refer, you can log in and refer the questions/solutions of the test which you had appeared.

Ques. Can I pay the fee through NET banking?

Ans: Yes, we offer NET banking facility by which you directly transfer the amount in our Account.

Bank Name : ICICI Bank

Name of the Account holder : Gpat Discussion Center Pvt. Ltd

Account Type : Current

Account Number : 734905500104

IFSC Code : ICIC0000282

Ques. The test is taking too much time to upload and also my system is not working properly?

Ans: We have deployed the best tested server to provide high speed and connectivity, kindly check your system and internet for speed/connectivity related issues.

Ques. I forgot my password?

Ans: Enter into login page and click on forgot password; automatically password will be mailed to your registered E-mail ID.

Ques. Can I cancel or change my purchased Products or Services such as Online Test Series and in the case of cancellation will you refund my payment?

Ans: We do not provide any option for cancellation or change in your purchased Products or Services. Once a Product or Service has been purchased by you, we can not provide any refund. We suggest that you should first go through the Free Trial Tests and free to use the contents, Products or Services before making payment.

GPAT Discussion Center

Aspirants 1st Choice for Pharma Exams Preparation

Allahabad | Bilaspur | Bhilai | Raipur | Bhopal | Indore | Delhi | Ghaziabad | Bhubaneswar |
Brahmapur

www.gdc4gpat.com, www.gdconlinetest.in

Join Our WhatsApp group:- 7974697768

For detail contact: 8602227444, 9770765680, 7974697768

SUBSCRIPTION TO THE WhatsApp CHANNEL

To subscribe this free service through mobile type your name and your college name, city, and send it to 8737889272.

Lets join in this channel to hit the success point of all competitive exams.

As a member of GDC, you will become part of a vibrant community of Pharma professionals from various reputed institutions.

Your feedback: We value your opinion and strive to make GDC a better channel, Please write in with your comments to gdcgpat037@gmail.com

Share this news to your friends and associates.



**Join GPAT Discussion Center
WHATSAPP Group**
(Gpat/Niper Guidelines Program)
(Separate Group For Boys and Girls)

Daily Pharma Questions
Pharma Jobs Alert
Pharma Seminar, Conferences
Information about all Pharma Scholarships across India

Pharma News Alert
Pharma Admission Alert

Send your Name, College Name
Year Of B.Pharm
7974697768

