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Under the Guidance of ANAND KUMAR
M.Tech., Ph.D JNU

- CSIR-NET / JRF / GATE
- PNBHM / TIFR
- IIT-JAM / CUET-UG / PG

MATHEMATICAL SCIENCE

Anand Institute of Mathematics

HEAD OFFICE

28 B / 6, Jia Sarai, Near IIT, Hauz Khas, New Delhi-110016 Nearest Metro Station IIT Gate

M.: 09891879909, 09871906279 | E-mail: anandinstituteofmaths@gmail.com

DIRECTOR'S MESSAGE





Dear Students.

It is my utmost pleasure to write few words about this academy.

Pi-AIM will cater to the need of aspirations of candidates appearing for the CSIR-UGC exam, GATE exam as well as IIT-JAM & M.Sc. entrance exam of various universities / Colleges all over India, Our aim is to impart quality education to the aspirants who want to pursue their career as M.Sc./Ph.D. student of prestigious institutes and universities such as IIT, TIFR, JNU, NBHM, IISc., D.U., PUNE, B.H.U., H.C.U., CMI, BARC, ISI, BANASTHALI etc. We have experienced, renowned and dedicated faculties from J.N.U., I.I.T., ISI, and D.U. who leaves no stone unturned in helping the students in realising their goal. Our study material in unique and at par in the sense that the original and latest knowledge is being incorporated from every known source of excellence in the corresponding field. Special guidance is provided to weak students and weekly evaluation of every student is done in order to keep track with the pace of teachers. Queries are welcomed and are handled properly and promptly.

I once again assure you of the quality education and a feeling of satisfaction once you are a part of this academy.

Remember nothing is impossible, if you have confidence and firm determination.

I wish you all the best to achieve your goal.

Thank you,

गुण बड़े एक से एक प्रखर, हैं छिपे मानवों के मीतर, मेंहदी में जैसे लाली हो, वर्त्तिका—बीच उजियाली हो। बत्ती जो नहीं जलाता है; रोशनी नहीं वह पाता है।

Founder & Director Dr. Anand Kumar (M.Tech., Ph.D., JNU)

राष्ट्रकवि श्री रामधारी सिंह 'दिनकर'

Pushpendra Patel

GATE AIR-1

I would like to share my success with all those who have always been a source of constant support for me. The achievement (GATE 1th Rank-2009, CSIR-JRF1th Rank-June 09, SPM, ISI, JNU-M.Tech.) is like a dream come true, for which I am really thankful to ANAND SIR (Director of p-AIM) and all the faculty members of the institute for providing me excellent guidance. After attending classes here, I understood the real importance of a mentor who not only teaches but preaches also the art of success and learning. The psychological support & confidence building lectures of classes really helped me to put my best and the result is before you. I wish other aspirants similar success. Pushpendra Patel

(M.Sc From V.B.S. Purvanchal University, Jaunpur, U.P.)

PARMEET SEHRAWAT **CSIR JRF AIR-1**

I am very glad as I have cleared CSIR NET JRF with AIR-1 I am very thankful to my god, my parents, brother, friends and all

 π AIM faculty Anand Sir, Yogesh Sir and Mishra Sir... And especially thankful to my favorite Anand Sir for positive guidance.





CSIR NET AIR-2



CSIR NET AIR-06



CSIR JRF AIR-94



CSIR JRF AIR-136



CSIR NET AIR-74





CSIR NET AIR-68(1)



CSIR JRF AIR-44



CSIR NET AIR-73



CSIR NET AIR-65





Khushi **CSIR JRF AIR-156**



CSIR NET JRF AIR-132



CSIR JRF AIR-213



CSIR JRF **AIR-118**



CSIR NET AIR-59



CSIR JRF AIR-99



CSIR JRF AIR-190



CSIR NET

AIR-173



CSIR NET





AIR-129



CSIR JRF AIR-138



CSIR JRF AIR-145

CORRESPONDENCE COURSE

COURSE DETAILS AND FEE STRUCTURE

Subjects	Course	Fee	Total
Mathematical Science (Study Material+Test Series Previous Year Paper & Solution)	NET-JRF, GATE, TIFR, & NBHM	₹ 8,000 + (18% IGST)	₹9,440
Mathematics/Statistics (Study Material+Online Test Series Previous Year Paper & Solution)	IIT-JAM	₹5,000 + (18% IGST)	₹5,900
Mathematical Science (Study Material+Online Test Series Previous Year Paper & Solution)	IIT-JAM, NBHM TIFR & DU	₹ 7,000 + (18% IGST)	₹8,260
Mathematical Science Test Series :- Topic Wise Test + C.F.T.	NET-JRF & GATE	₹1,000 (18% IGST) Included	₹1,180

HOW TO PAY?

BY CASH:-

You may directly approach **ANAND INSTITUTE OF MATHEMATICS** office at New Delhi where you are required to complete all formalities by filling detailed application form with two passport size photographs.

BY DEMAND DRAFT:-

Demand Draft should be made in favour of "ANAND INSTITUTE OF MATHEMATICS" payable at New Delhi from any Nationalized Bank.

BY INTERNET BANKING:-

Deposite fee in any HDFC Bank (with core banking facility) from anywhere in India by ONLY Cash/Net Banking in favour of "ANAND INSTITUTE OF MATHEMATICS" A/C No. 03362000003796, RTGS/NEFT IFSC Code: HDFC0000336.

Payable at New Delhi.

- *Send the duly filled application form with two passport size photographs and Demand Draft through speed post /registered post or by courier.
- *Application form can be downloaded from our website: www.anandinstitute.org.

Books Written by Anand Sir

























am Dahiya

CSIR NET

AIR-32





Naresh Digi CSIR JRF

AIR-209





Moumita Dutta

AIR-15





CSIR JRF

AIR-118

RATHINET AIR -48

























JRF AIR -68

NET AIR -16



Raunak

NET AIR-159







NET AIR -37

JRF AIR -147









JRD AIR -110





















CSIR-JRF **AIR-174**

Finally, I qualified JRF-NET. I am extremely thankful to π -AIM faculty members for there wonderful guidance. Thanku so much Anand sir, Yogesh sir, DC Mishra sir and all others faculty and staff.

Mamta Rohilla M.Sc. from Kurukshetra University, Kurukshetra

Mamta Rohilla

Finally qualified NET-JRF, I am extremely thankful to π -AIM faculty for their wonderful guidance Thank you so much Anand sir, Yogesh sir, mishra sir and whole faculty of π -AIM.

M.Sc. from Kurukshetra University, Kurukshetra





Shushma Jangara CSIR-JRF **AIR-139**



Vikas Churasiya Satnam Insaa CSIR-NET-80 CSIR-JRF-173 9728524925



Dheeraj Shukla CSIR-JRF-70 8004253142



CSIR-JRF

Garima Kakar CSIR-JRF

Ankit Kartike



AIR-104

AIR-77

CSIR-JRF AIR-255









Rajinder CSIR - JRF

Sajjad











Lokesh Kumar



































Nilesh Pakhira CSIR-NET 09735565446 W.B.



CSIR - JRF







Indira









J.S.K Reddy















Taranjot GATE IIT-D



Sudip Das

GATE (Maths) IIT-R(Ph.D.)



IIIT(AL)

Prakash Chand GATE (Maths)





Jagat Singh GATE (AIR-79) IIT-D L. Anthony GATE (Maths)





About Director

Dr. Anand Kumar went to St. Karen's school , Patna for his Primary education. He then went to prestigious "Netarhat School" in Jharkhand for his High School education and from there he obtained 16 th rank in Bihar Secondary School examination class 10 th examination. After that he did his Intermediate (12 th) from prestigious "Patna Science College" with more than 90 % marks in Mathematics and distinction in Hindi which was followed by graduation from "Osmania University", Hyderabad with more than 80 % marks in Mathematics.

During the final year of graduation he was among top rankers in entrances of "Pune University" M.C.A, J.N.U. M.C.A., H.C.U M.C.A entrance exams. He then did his M.C.A. from J.N.U. He also got job in PCS during M.C.A days in JNU but due to deep interest in teaching he left the job and decided to pursue M. Tech from JNU and along with that he started guiding CSIR, GATE and JAM Mathematics aspirants whole heartedly from year 1999 onwards . He was also topper of Pune M. Tech entrance and among top rankers in J.N.U. M. Tech entrance.

He is also All India Rank 1 holder in CSIR NET-JRF Mathematical Science examination multiple times with around 80% marks. Beside that he is also all India Rank 3 holder in GATE Mathematics examination.

He has also completed his Ph. D from J.N.U with several research papers including papers in IEEE Access; Journal of Discrete Mathematical Sciences and Cryptography, Taylor & Francis, UK; Journal of Intelligent & Fuzzy Systems and International Journal of Electrical and Computer Engineering. He has also presented several papers in International conference on Networking and Cryptography.

He is founder and director of Anand Institute of Mathematics (PI-AIM) (founded on 23 rd September 2005). He laid the foundation of Anand Institute of Mathematics (PI-AIM) after having vast experience of teaching

Anand Institute of Mathematics (PI-AIM) has till now guided around fifteen thousand students all over India in realizing their dream of clearing CSIT NET/JRF, GATE, JAM entrance examination with top rank. Beside that students from this student have cleared Ph. D entrance examination M. Tech entrance examination of T.I.F.R., I.I.S.C., I.S.I, I.I.T, I.I.I.T, J.N.U, D.U, H.C.U, B.H.U, C.C.U, N.I.T etc. etc. with good ranks and have very good performance there also. Students of Anand Institute of Mathematics (PI- AIM) are also bringing laurels to their country by setting trademarks if foreign labs . Students of Anand Institute of Mathematics (PI-AIM) have got Rank 1 in CSIR NET-JRF Mathematical Science examination and also Rank 1 in GATE Mathematics examination as well as all top ranks in these exams.

He gives his 100% in properly guiding his students in realizing their goal. He is committed to laying strong base to students in every topic he teaches, so that they can excel in their field to reach the zenith.

Founder & Director

Dr.Anand Kumar (M.Tech., Ph.D., JNU) Full Time Classroom Programme

Pi-AIM has made a comprehensive **700 hours** full time classroom teaching programme, which includes **CSIR-UGC & GATE** entrance classes. During this period exhaustive and extensive information will be provided to the students. Classes will be held **5 to 6 days** in a week on a regular basis for at least **6-7 hours** for the subject. Topic wise tests will be conducted to assess the knowledge gained by the students.

In view of the fact that faculty is the foundation pillars of any academic organization, therefore all our teachers are CSIR-UGC, JRF/NET, M.Tech. and GATE qualified, who teach concepts and topics which are essentially required to crack these prestigious examinations.

The classes are conducted strictly following the syllabus of the exam covering all essential topics. The syllabus is planned on weekly basis so that the whole course may be covered in the specific period, which result in smooth running of course within predefined time frame. After finishing each topic, a test is taken to assess the progress.

The Test Series is one of the unique point of our coaching.

Free Mock Test Series is conducted after the completion of the course and also weekly test is conducted topic wise. The question follows the same pattern as in the CSIR-UGC & GATE exam. Questions are prepared on the basis of our research in previous years paper which not only helps the students to rehearse before the exam but also make them confident about their preparation.

Our Book Bank has a good direct approached collection of standard textbooks. Important reference materials are also provided as and when required.

Correspondence Teaching Programme / Study Material

Those students who are keen to qualify this exam, but unable to attend the regular classroom programme due to some reason, can avail our correspondence guidance. The matter will consist of our classroom study material, the reference material, previous year

available questions with answers, assignments solved with proper explanation along with at least **30 model question papers** with answers. Students have the facility of asking **questions via email** and they will get proper and prompt reply in turn. Even **telephonic discussion** is also welcomed.

The correspondence material is self-explanatory and this will compensate the absence of teacher in distant learning mode. However, for removing the difficulties of the students, we organize contact classes, once or twice every week. A total of 20-30 contact classes will be held during the entire course.

Although the aim of our classes is to prepare the students for CSIR-NET & GATE exam but we also give extra useful information to concrete their foundation so that they may face any interview or other Ph.D. entrance exams with tremendous confidence. Thus the coaching is also beneficial for ONGC, DRDO, ISRO, HIT, TIFR, ISI, JNU, IIT and various other Ph.D. entrance examinations.

We have the best affordable and reasonable fee structure. The fee is highly competitive and affordable.

Duration

The duration of the entire course will be **five months** for CSIR-UGC course, there after additional classes are provided for **GATE** for about **three weeks**.

In this stipulated period the whole syllabus will be sincerely covered with complete analysis.

Accommodation

Accommodation facility is available at extra cost for outstation students (Both Male and Female) with good food. The students should inform us at least seven days in advance with their requirements.

What if you are not selected?

For any genuine reason (to be decided exclusively by the institute) if you do not qualify the exam, you can join our next weekend batch by paying Rs. 11,800/- Registration fee and availal regular facilities

CSIR NET/JRF (WEEKEND BATCH)*

For Those student's who are working some where or are regular students of any college we have weekend programme for them. They have to come here on Saturday and Sunday for 6 to 7 hours on both days and have their syllabus covered with full effect.

* Note: Weekend batch starts from 1st week of January & 2nd week of July.

Approach to CSIR-NET(JRF) Exam

Students after having done their UG or PG have to appear in this exam. The vast syllabus of this exam makes it one of the toughest exam. Thus the selection of the sections under the subject plays key role in cracking the exam and it is here that we come to your rescue.

LIVE CLASSES & RECORDING CLASSES

Those students who are interested in qualifying these exam but due to some unavoidable reasons they cannot attend the regular classes can avail our live classes which is direct telecast of our regular full time classes without a single second cut. Thus the students will have the same feeling as that of regular class. Besides that our regular classes are recorded uncut and they are provided as recorded classes to regular students as well as live class students.

Recorded classes can be seen any number of times by the students and with the help of that they can clear each and every doubts that arises in the class. Access of recorded classes are available to the students till the exam is over and access starts from the day that class is held.

In this era of live classes at most of the places these classes are separate and restricted but ours is no less than that of regular classes but in some sense it is even better as it involves daily doubt classes of online students after class is over.

Discussion of online tests which are held weekly is also done on regular basis which is again same for both Offline& Online students.

Online (Live) Class students also have opportunity of clearing their doubts in physical mode on weekends or weekdays whichever suits them with expert teachers in their fields.

MATHEMATICAL SCIENCE

From June, 2011 CSIR-UGC (NET) Exam for Award of Junior Research Fellowship and Eligibility for Lecturership shall be a Single Paper Test having Multiple Choice Questions (MCQs). The question paper shall be divided in three parts.

Part 'A'

This part shall carry 20 questions pertaining to logical reasoning, graphical analysis, analytical and numerical ability, quantitative comparisons, series formation, puzzles, etc. The candidates shall be required to answer any 15 questions. Each question shall be of two marks. The total marks allocated to this section shall be 30 out of 200.

Part 'B'

This part shall contain 40 Multiple Choice Questions (MCQs) generally covering the topics given in the syllabus. A candidate shall be required to answer any 25 questions. Each question shall be of three marks. The total marks allocated to this section shall be 75 out of 200.

Part 'C

This part shall contain 60 questions that are designed to test a candidate's knowledge of scientific concepts and/or application of the scientific concepts. The questions shall be of analytical nature where a candidate is expected to apply the scientific knowledge to arrive at the solution to the given scientific problem. The questions in this part shall have multiple correct options. Credit in a question shall be given only on identification of ALL the correct options. No credit shall be allowed in a question if any incorrect option is marked as correct answer. No partial credit is allowed. A candidate shall be required to answer any 20 questions. Each question shall be of 4.75 marks. The total marks allocated to this section shall be 95 out of 200. For Part 'A' and 'B' there will be Negative Marking@25% for each wrong answer. No Negative Marking for Part 'C'.

SPECIAL FEATURES:-

- Special Doubt Class: 6 pm to 9 pm Everyday
- Online question & answer.
- Telephonic discussion on 09871906279.

GATE (Mathematics)

GATE Score Card is essential for getting admission in M.Tech /Ph.D. Course in nearly all prestigious institutes including I.I.T's, I.I.Sc, IIIT'S, NIT's etc., To get admitted into IISc and IIT's you should have very good score in GATE exam whose weightage is up to 100% in your selection, rest percentage if any goes to their own written exam as well as interview. A motivated and dedicated students having attitude and potential for being good researcher or having zeal of booming into industrial arena should take this exam very seriously and have a sound foundation for achieving their respective dreams/goals.

There are **65 questions** in GATE examination. Out of **65** questions **30 are of 1 marks** & **35 are of 2 marks**.

Topic wise breakup of marks in GATE (Total:100 Marks)

Linear Algebra & Matrices	08-09 Marks
Complex Analysis	08-09 Marks
Real Analysis	08-09 Marks
Ordinary Differential Equation	06-09 Marks
Partial Differential Equation	08-09 Marks
Algebra	08-09 Marks
Functional Analysis	08-09 Marks
Topology	06-10 Marks
Probability and Statistics	10-11 Marks
Linear Programming	05-07 Marks
Numerical Analysis Calculus of Variation and	05-09 Marks
Integral Equations	05-06 Marks
Mechanics	04-05 Marks
General Aptitude	15 Marks

Books Recommend	ed of Mathemat	tics (NET & GATE)
		(

Linear Algebra Schaum Series, G. Hadley,

A. R. Vasishtha, K. Abadin Hoffman

Kunze, Gibert Strang

Matrices A.R. Vasishtha, Schaum, K. Abadin

Mathematical Analysis Arora & Malik, N.P. Bali, Rudin,

Vasishtha, S. Bartle, S.K. Mapa

Complex Analysis Schaum Series, Churchil,

Kasana, J.N Sharma & Vasishtha,

Ionway, Alfonse, Ponnusamy

Modern Algebra Gallian, Herstein, Vasishtha

R.Kumar, Khanna & Bhambri

Operation Research S.D. Sharma, Kanti Swaroop, Taha

Differential Equation M.D. Raisinghania, Snedden,

D.A. Murray, N.M. Kapoor,

T.Amaranath, S.L. Ross, Boyce

& Di Prima

Statistics Gupta & Kapoor, Schaum Series,

Gun, Gupta and Dasgupta, Part I & II

Discrete Mathematics Kolman, Busby & Ross

Number Theory Zuckerman, Burton

Numerical Analysis S.S. Shastry, Jain, Iyengar & Jain,

Rajaraman

Calculus of Variation M.D. Raisinghania Integral Equation M.D. Raisinghania

Topology Simmons, J.N. Sharma, Munkrez

Mechanics Gupta & Gupta

Functional Analysis Rudin, Ponnusamy, Krezik

Integral Calculus Krishna Series, Schaum Series

Thomas & Fenney

COMMON SYLLABUS FOR PART 'B' AND 'C' MATHEMATICAL SCIENCES

UNIT - 1

Real Analysis:

- Elementary set theory, finite, countable and uncountable sets, Real number system as a complete ordered field, Archimedean property, supremum, infimum.
- Sequences and series, convergence, limsup, liminf.Bolzano Weierstrass theorem. Heine Borel theorem.
- > Continuity, uniform continuity, differentiability, mean value theorem.
- > Sequences and series of functions, uniform convergence.
- > Riemann sums and Riemann integral, Improper Integrals.
- Monotonic functions, types of discontinuity, functions of bounded variation, Lebesgue measure, Lebesgue integral.
- Functions of several variables, directional derivative, partial derivative, derivative as a lineartransformation, inverse and implicit function theorems.
- Metric spaces, compactness, connectedness. Normed linear Spaces. Spaces of continuous functionsas examples.

Linear Algebra:

- > Vector spaces, subspaces, linear dependence, basis, dimension,
- > Algebra of lineartransformations.
- > Algebra of matrices, rank and determinant of matrices, linear equations.
- > Eigenvalues and eigenvectors, Cayley-Hamilton theorem.
- > Matrix representation of linear transformations. Change of basis, canonical forms, diagonal forms, triangular forms, Jordan forms.
- Inner product spaces, orthonormal basis.
- Quadratic forms, reduction and classification of quadratic forms

UNIT - 2

Complex Analysis:

- Algebra of complex numbers, the complex plane, polynomials, power series,transcendental functions such as exponential, trigonometric and hyperbolic functions.
- > Analytic functions, Cauchy-Riemann equations.
- Contour integral, Cauchy's theorem, Cauchy's integral formula, Liouville's theorem, Maximummodulus principle, Schwarz lemma, Open mapping theorem.
- > Taylor series, Laurent series, calculus of residues.
- > Conformal mappings, Mobius transformations.

Modern Algebra:

- Permutations, combinations, pigeon-hole principle, inclusion-exclusion principle, derangements.
- Fundamental theorem of arithmetic, divisibility in Z, congruences, Chinese Remainder Theorem, Euler's Ø- function, primitive roots.
- Groups, subgroups, normal subgroups, quotient groups, homomorphisms, cyclic groups, permutation groups, Cayley's theorem, class equations, Sylow theorems.
- Rings, ideals, prime and maximal ideals, quotient rings, unique factorization domain, principal idea Idomain, Euclidean domain.
- > Polynomial rings and irreducibility criteria.
- > Fields, finite fields, field extensions, Galois Theory.

Topology:

Basis, dense sets, subspace and product topology, separation axioms, connectedness and compactness.

UNIT - 3

Ordinary Differential Equations (ODEs):

- Existence and uniqueness of solutions of initial value problems for first order ordinary differential equations,
- > Singular solutions of first order ODEs, system of first order ODEs.
- General theory of homogenous and non-homogeneous linear ODEs, variation of parameters,
- > Sturm-Liouville boundary value problem, Green's function.

Partial Differential Equations (PDEs):

- > Lagrange and Charpit methods for solving first order PDEs,
- > Cauchy problem for first order PDEs.
- Classification of second order PDEs, General solution of higher order PDEs with constant coefficients.
- > Method of separation of variables for Laplace, Heat and Wave equations.

Numerical Analysis:

- Numerical solutions of algebraic equations, Method of iteration and Newton-Raphson method, Rateof convergence,
- > Solution of systems of linear algebraic equations using Gauss elimination
- Gauss-Seidel methods, Finite differences, Lagrange, Hermite and spline interpolation,
- Numerical differentiation and integration, Numerical solutions of ODEs using Picard, Euler, modified Euler and
- Runge-Kutta methods.

- Gauss-Markov models, estimability of parameters, best linear unbiased estimators, confidence intervals, tests for linear hypotheses. Analysis of variance and covariance. Fixed, random and mixed effects models. Simple and multiple linear regression. Elementary regression diagnostics. Logistic regression.
- Multivariate normal distribution, Wishart distribution and their properties. Distribution of quadratic forms. Inference for parameters, partial and multiple correlation coefficients and related tests. Datar eduction techniques: Principle component analysis, Discriminant analysis, Cluster analysis, Canonical correlation.
- Simple random sampling, stratified sampling and systematic sampling. Probability proportional to size sampling. Ratio and regression methods.
- Completely randomized designs, randomized block designs and Latinsquare designs. Connectedness and orthogonality of block designs, BIBD. 2K factorial experiments: confounding and construction.
- Hazard function and failure rates, censoring and life testing, series and parallel systems.

Operation Research (OR):

- > Linear programming problem, simplex methods, duality.
- > Elementary queuing and inventory models.
- ➤ Steady-state solutions of Markovian queuing models: M/M/1, M/M/1 with limited waiting space, M/M/C,M/M/C with limited waiting space, M/G/1.

All students are expected to answer questions from Unit I.

Students in mathematics are expected to answer additional question from Unit II and III.

Students with in statistics

are expected to answer additional question from Unit IV.

OUR EXPERT OF MATHEMATICS

Anand Sir : M.Tech, Ph.D, JNU

Mishra Sir : M.Tech, Ph.D, IIT-D

Gaurav Sir : M.Sc, M Phil (IIT-R)

M.Tech (IIT-D), Ph.D (DU)

Yogesh Sir : Ph.D (IIT-D)

R.K. Pandey Sir : M.Sc, Ph.D Pursuing (DU)

	Cut		larks	of CS	R-N	ET/JR	RF Ma	thema	off Marks of CSIR- NET/JRF Mathematical Sciences	scienc	es	
Year	Unrese	served	EVS	õ	ō	овс	S	sc	ST		PH/VH	¥
	JRF	NET	JRF	NET	JRF	NET	JRF	NET	JRF	NET	JRF	NET
16 Sept. 2022	48.38%	43.52%	42.49%	38.47%	40.5%	36.45%	32.38%	29.14%	27.13%	25.00%	25.00%	25.00%
16 Feb. 2022	49.25%	44.32%	44.87%	40.38%	42.75%	38.75%	34.37%	30.93%	27.00%	27.00%	%00'97	25.00%
30 Nov. 2020	27.00%	51.30%	%86.13	46.23%	50.75%	45.67%	40.25%	36.25%	30.88%	27.78%	28.75%	25.87%
26 Nov. 2020	27.00%	51.30%	51.38%	46.23%	50.75%	45.67%	40.25%	36.25%	30.88%	27.78%	%52.87	25.87%
Dec. 2019	53.63%	48.27%	48.13%	43.32%	46.25%	41.63%	35.13%	31.62%	27.50%	25.00%	%00'57	25.00%
June. 2019	55.75%	50.18%	46.63%	41.97%	48.88%	43.99%	37.75%	33.98%	30.50%	27.45%	28.50%	25.00%
Dec. 2018	48.36%	43.77%	i	ŀ	41.00%	36.90%	31.88%	28.69%	25.25%	25.00%	25.00%	25.00%
June. 2018	56.25%	50.63%		ł	47.38%	42.64%	37.00%	33.30%	27.25%	25.00%	25.00%	25.00%
Dec. 2017	48.38%	43.54%		1	40.75%	36.68%	31.25%	28.13%	25.00%	25.00%	25.13%	25.00%
June.2017	50.38%	45.34%		ł	42.88%	38.59%	34.13%	30.72%	25.00%	25.00%	25.00%	25.00%
Dec. 2016	59.50%	53.55%			20.00%	45.00%	39.25%	35.33%	27.63%	25.00%	%00'97	25.00%
June. 2016	54.88%	49.39%	Ī		47.38%	42.64%	37.63%	33.87%	25.00%	25.00%	25.75%	25.00%
Dec. 2015	54.88%	49.39%		•	47.75%	42.98%	38.63%	34.77%	25.63%	25.00%	32.00%	25.54%
June. 2015	53.13%	47.82%	-	-	42.25%	40.73%	36.12%	32.52%	25.50%	25.00%	38.63%	34.77%
Dec. 2014	53.00%	47.70%	ŀ	ı	47.70%	42.93%	42.40%	38.16%	42.40%	38.16%	42.40%	38.16%

Unit Wise Marks Distribution Analysis of CSIR-NET/JRF Previous Year Paper

	3	JUNE 2019		Dec	Dec- 2019		26-	26-Nov-2020		30-	30-Nov-2020		16-	16-Feb-2022		16-	16-Sept2022	22
SUBJECTS	5	JRF/NET		JRI	JRF/NET		JR	JRF/NET		볏	JRF/NET		R.	JRF/NET		J.	JRF/NET	
	_	Marks		2	Marks		2	Marks		2	Marks		Σ	Marks		Z	Marks	
SECTIONS	Part -B (3 Marks)	Part- C (4.75 Marks)	Total Marks	Part -B (3 Marks)	Part- C (4.75 Marks)	Total Marks	Part -B (3 Marks)	Part- C (4.75 Marks)	Total Marks	Part -B (3 Marks)	Part- C (4.75 Marks)	Total Marks	Part -B (3 Marks)	Part- C (4.75 Marks)	Total Marks	Part -B (3 Marks)	Part- C (4.75 Marks)	Total Marks
Unit - I	36	76	112	36	76	112	36	85.5	121.5	36	85.5	121.5	39	92	115	36	80.75	116.75
Real Analysis	18	38	26	15	42.75	57.75	18	52.25	70.5	18	52.25	70.25	21	42.75	63.75	21	42.75	63.75
Linear Algebra	18	38	99	17	33.25	54.25	18	33.25	51.25	18	33.25	51.25	18	33.25	51.25	15	38	53.00
Unit -II	24	66.5	90.5	24	66.5	90.5	24	52.52	76.25	24	22	81	21	66.5	87.5	24	61.75	85.75
Complex Analysis	12	19	31	6	19	28	12	19	31	12	19	31	12	19	31	12	19	31
Modern Algebra	6	28.5	37.5	6	28.5	37.5	6	28.25	37.5	6	28.5	37.5	6	28.5	37.5	6	28.5	37.5
Topology	ဗ	19	22	9	19	25	3	4.75	7.75	က	9.5	12.5	0	19	19	က	14.25	17.25
Unit -III	24	57	81	24	57	84	24	61.75	85.75	24	22	8	24	22	84	24	61.75	81
ODE	9	14.25	20.25	9	14.25	20.25	9	14.25	20.25	6	14.25	23.25	9	14.25	20.25	3	14.25	17.25
PDE	9	14.25	20.25	9	9.5	15.5	9	19	25	3	9.5	12.5	9	9.5	15.5	9	9.5	15.5
Numerical Analysis	3	9.5	12.5	9	9.5	12.5	ဗ	9.5	12.5	8	9.5	12.5	9	9.5	15.5	8	9.5	12.5
Calculus of Variation	3	9.5	12.5	3	9.5	12.5	3	9.5	12.5	3	9.5	12.5	3	9.5	12.5	9	9.5	15.5
Integral Equation	3	4.75	7.75	3	9.5	12.5	3	4.75	7.75	ဗ	9.5	12.5	0	9.5	9.5	3	9.5	12.5
Classical Mechanics	3	4.75	7.75	3	4.75	7.75	3	4.75	7.75	3	4.75	7.75	3	4.75	7.75	3	4.75	7.75
Unit - IV	36	85.50	121.5	36	85.5	121.5	36	85.5	121.5	36	85.50	121.5	36	85.5	121.5	36	85.5	121.5
Statistics	33	76	109	33	80.75	113.75	33	80.75	113.75	33	80.75	113.75	33	80.75	113.75	33	80.75	113.75
OR	3	9.5	12.5	ဗ	4.75	7.75	3	4.75	7.75	3	4.75	7.75	3	4.75	7.75	3	4.75	7.75
TOTAL	120	285	405	120	285	405	120	285	405	120	285	405	120	285	405	120	285	405













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अभिमन्यु मैथ्स में नेट में बने नेशनल टॉपर

रांची युनिवर्सिटी के मैध्स डिपार्टमेंट के स्टूडेट अभिमन्यु ने पूरे देश में मैच्स के नेट में टॉप किया है. सिमडेगा के इस स्टूडेंट ने भी गरीबी को मात देकर देश में फर्स्ट रैंक लाया है, घर का खर्च चलाने के लिए ये बच्चों को पदाते हैं और इसके बाद अपनी पदाई करते हैं. फिलहाल में ये सेंट्रल युनिवरिरंटी ऑफ झारखंड में अरिसटेट लेक्चरर हो चुके हैं और आरयू ने इन्हें 30 सितंबर को सम्मानित भी किया था.

दक्षिणा से चलता है घर

अभिमन्यु के पिता चिंतामणि गांव में घर-घर जाकर पूजा-पाठ का काम करते हैं.यजमानों से मिली दक्षिणा से ही घर की रोजी-रोटी चलती है.ऐसं में

उपलब्धि पर पूजा को किया सम्मानित

झोझकलां। गांव उमरवास की छात्रा पूजा कुमारी पुत्री अनिल कुमार ने जेआरएफ जुनियर रिसर्च फेलोशिप में सफलता प्राप्त

की है। पूजा ने परीक्षा में गणित विषय में 103.25 अंक लेकर एआईआर 101वां स्थान प्राप्त किया।

इस उपलब्धि पर अत्तर सिंह कादयान, पूजा कुमारी जसवीर व मनजीत ने

पूजा कुमारी को सम्मानित किया। अत्तर सिंह कादयान ने कहा कि पूजा कुमारी की यह उपलब्धि अन्य बच्चों को प्रेरित करने कार्य करेगी। संवाद





एनबीएचएम में औरंगाबाद के रोहित की 12वीं रैंक

बनवाने

युरेंद्र ने पास की नेट परीक्षा

हन्द्रानी : मुख्य उक्तम सिंह पडियार में नेट परीक्षा 39वीं रेंक के साथ पास

की है। कर परीक्ष बिजले साल दिखर में हुई बी। सुरेंद्र ने इससे पहले भी चिजले साल जुनमें नट परीका 55 फीसदी अंकों के साथ उनीमें की बी।

सुरेंद्र ने 2013 र हत्दानी के एमकीपीजी कॉलेज से एमएससी की परीक्षा





ता सामित की है





लिया और र्वपर बन गा। जी स्थल

कई बार हराजा मिली, पर लक्षर सी

बोदाः देशांत समारोह में विनोद

कुमार को खुली सबसे उसरन बी। क्षत्री के साथ दर्श की लिया हा।

सआदि में और ऑस्ट्रेंट रिक्क

गव को बॉट्सों से अने बढ़ कर

मात देकर गोल्ड मेडल किया हासिल



पटन विक्रमान प्रतिनिध होसना कृतंद हो हे सफलन जिसते

जन्बा कुछ करने का • कभी पेने की कमी ने छोड़नी पड़ी व्यांनसम्बन्धं गोल्ड मेडलिस्ट वर्ने इंग्रीनियानि की पराई

• अभ एपरसर्वा परित का टोपर इन जीत चेल्ट मेहत • गंद के फिल्केपन को की फोड

कुपम में बनी फेल मेडितार



मानंद इंस्टिट्यूट का विनोद क्मार नेट परीक्षा उत्तीर्ण

80 की मदी अंक के सहव उतीर्ण की ।

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