



NATIONAL ELIGIBILITY CUM ENTRANCE TEST (UG) 2023

DETAIL PAPER ANALYSIS

(By Resonance)

 REGISTERED & CORPORATE OFFICE (CIN: U80302RJ2007PLC024029)

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CG Tower Campus, Kota



VISION

Excellence in Career Education



MISSION

Practice, Persistence and Performance



VALUES

- Leadership with humane touch at various levels
- Integrity, transparency and openness in all our actions
- Innovation and pursuit of excellence in career education
- Address the needs of students through career oriented initiatives
- Strive to continuously improve our processes and quality of deliverables

R.K. Verma (RKV Sir)
 B.Tech. (IIT-Madras, 1994)
 Founder | Managing Director
 Head (Academics) | Sr. Faculty (Physics)

About Resonance:
 Place : Kota (Rajasthan)
 Established on: 11th April, 2001

S.No.	Academic Division	Classes	Target Examinations
1.	Pre-Engineering Division: JEE (Advanced)	IX, X, XI, XII & XII+	JEE (Advanced) JEE (Main) Olympiads
2.	Pre-Engineering Division: JEE (Main)	IX, X, XI, XII & XII+	JEE (Main) Other Engineering Entrance Exams
3.	Pre-Medical Division	IX, X, XI, XII & XII+	NEET (UG) Olympiads
4.	Pre-foundation Career Care Programme Division (PCCP)	V, VI, VII, VIII, IX & X	School & Board Exams NTSE Olympiads STSE
5.	Commerce & Law Programme Division (CLPD)	XI, XII & XII+	CA CS CLAT Board CUET (UG) UG & PG
6.	Pre-university & School Preparatory Division (PSPD)	XI, XII & XII+	Board Exams CUET-UG IPMAT JIPMAT BITSAT NDA-NA UCEED STSE College Entrance Exam (UG) & Scholarship Exams
7.	Resonance Multiple Examination Division (ResoMEx)	XII+ UG & PG	SSC BANKS RAILWAYS Other Govt. & Private Recruitment Exams
8.	Distance Learning Programme Division (DLPD)	V to XII & XII+	JEE (Main) JEE (Advanced) NEET (UG) OLYMPIADS PRE-FOUNDATION OTHERS
9.	EdTech Division	V to XII & XII+	JEE (Main) JEE (Advanced) NEET (UG) PRE-FOUNDATION
10.	Resonance International Studies Division (Reso-ISD)	VI to XII & XII+	JEE (Main) JEE (Advanced) NEET (UG) OLYMPIADS PRE-FOUNDATION Upcoming: SAT IELTS GRE PTE

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About the Exam

SN#	Particulars	Information
1.	Document Type	Resonance – NEET (UG) 2023 Detail Paper Analysis
2.	Target Exam	NATIONAL ELIGIBILITY CUM ENTRANCE TEST (UG)
3.	Target Year	2023
4.	Exam Conducting Body	National Testing Agency (NTA)
5.	Exam Date & Day	07 th May 2023 (Sunday)
6.	Exam Timings	02:00 PM to 05:20 PM (Indian Standard Time)
7.	Duration of Examination	200 minutes (03 hours 20 Minutes)
8.	Subject	Physics, Chemistry and Biology
9.	Mode of Examination	Offline mode (Pen & Paper-based Test)
10.	Website(s)	www.nta.ac.in, https://neet.nta.nic.in/
11.	Medium of the Question Papers	Candidates can opt for a Question Paper in any one of the following 13 languages English, Hindi, Assamese, Bengali, Gujarati, Kannada, Malayalam, Marathi, Odia, Punjabi, Tamil, Telugu, and Urdu.
12.	Eligibility Criteria	As per CBSE, in order to be eligible for admission to MBBS/BDS Courses for a particular academic year, it shall be necessary for a candidate to obtain minimum <ul style="list-style-type: none"> • For Gen. 50th percentile • For OBC/SC/ST 40th percentile.
13.	Annual Intake	Admissions to all seats of MBBS/BDS courses will be done through NATIONAL ELIGIBILITY CUM ENTRANCE TEST (UG), 2023. The seats are classified in the following categories: <ol style="list-style-type: none"> All India Quota Seats. State Government Quota Seats. State/Private/Management/NRI Quota Seats in all Private Medical /Dental Colleges or any Private/ Deemed University Central Pool Quota Seats AIIMS and JIPMER Total Number of seats for MBBS is 91415, Govt Seat 40540. (Including 1899 seats in 19 AIIMS) Total Number of Seats for BDS 26949, Govt. Seat 3489

Exam Pattern

The Test pattern of NEET (UG) - 2023 comprises four Subjects. Each subject will consist of **two sections**. Section A will consist of **35 Questions** and Section B will have **15 Questions**, out of these 15 Questions, candidates can choose to attempt any **10 Questions**. So, the total number of questions and utilization of time will remain the same. The pattern for the **NEET (UG) - 2023** Examination for admission in the Session 2023-24 is as follows:

S. No.	Subject(s)	Section(s)	Type Of Question(s)	Number Of Questions	Marks (For each Qs.)	Negative Marking	Total Marks
1.	PHYSICS	SECTION A	<i>MCQ (Multiple Choice Questions)</i>	35	4	-1	140
		SECTION B		15	4	-1	40
2.	CHEMISTRY	SECTION A		35	4	-1	140
		SECTION B		15	4	-1	40
3.	BOTANY	SECTION A		35	4	-1	140
		SECTION B		15	4	-1	40
4.	ZOOLOGY	SECTION A		35	4	-1	140
		SECTION B		15	4	-1	40
		TOTAL		200			720

Important Points to Note:

(a) For Section A (MCQs): To answer a question, the candidates need to choose one option corresponding to the correct answer or the most appropriate answer. However, if any anomaly or discrepancy is found after the process of challenges of the key verification, it shall be addressed in the following manner:

- (i) Correct answer or the most appropriate answer: Four marks (+4)
- (ii) Any incorrect option marked will be given minus one mark (-1).
- (iii) Unanswered: No mark (0).
- (iv) If more than one option is found to be correct then Four marks (+4) will be awarded to only those who have marked any of the correct options.
- (v) If all options are found to be correct then Four marks (+4) will be awarded to all those who have attempted the question.

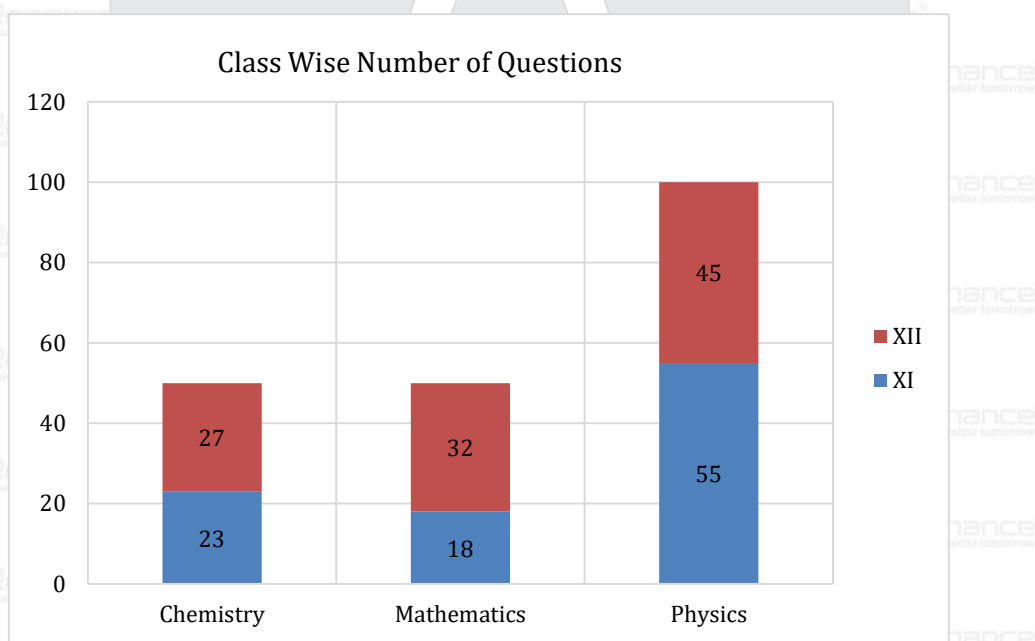
(vi) If none of the options is found correct or a Question is found to be wrong or a Question is dropped then all candidates who have appeared will be given four marks (+4) irrespective of the fact whether the question has been attempted or not attempted by the candidate.

(b) For Section B (MCQs): Candidates need to attempt any 10 Questions out of 15 Questions given. In the event of a candidate has attempted more than 10 questions, only the first 10 attempted questions will be considered for evaluation. **There will also be negative marking for Section B.** However, if any anomaly or discrepancy is found after the process of challenges of the key verification, it shall be addressed in the following manner:

- i. Correct Answer: Four marks (+4)
- ii. Incorrect Answer: Minus one mark (-1)
- iii. Unanswered: No mark (0).
- iv. If more than one option is found to be correct then Four marks (+4) will be awarded to only those who have marked any of the correct options.
- v. If all options are found to be correct then Four marks (+4) will be awarded to all those who have attempted the question.
- vi. If a question is found to be incorrect or the Question is dropped then Four marks (+4) will be awarded to all those who have attempted the question. The reason could be due to human error or technical error.**
- vii. Candidates are advised to do the calculations with the constants given (if any) in the questions.

Overall Question Distribution

Subject	Class 11		Class 12		Total Percentage	
	No of Questions	Total Marks	No of Questions	Total Marks	Class 11	Class 12
Chemistry	23	92	27	108	46%	54%
Physics	18	72	32	128	36%	64%
Biology	55	220	45	180	55%	45%
Grand Total	96	384	104	416	48%	52%



Overall Difficulty Level Analysis

In this analysis, we have rated every question on a scale of 1 to 3. The ratings are done by expert faculty of Resonance. The individual ratings are then averaged to calculate overall difficulty level.

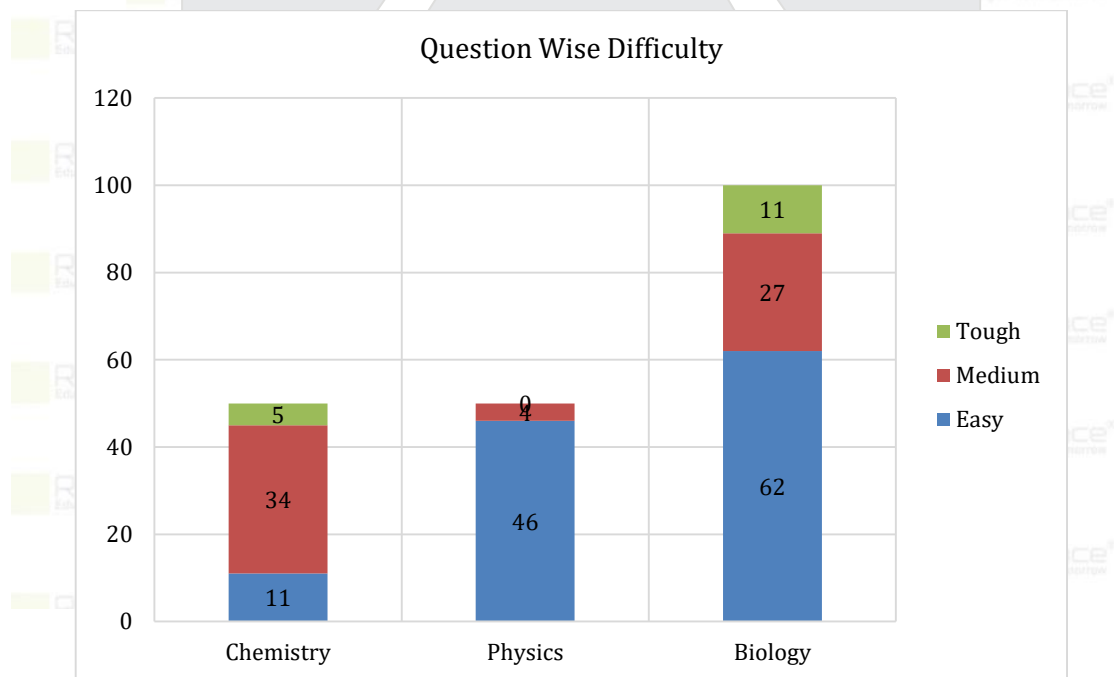
1: Easy

2: Moderate

3: Difficult

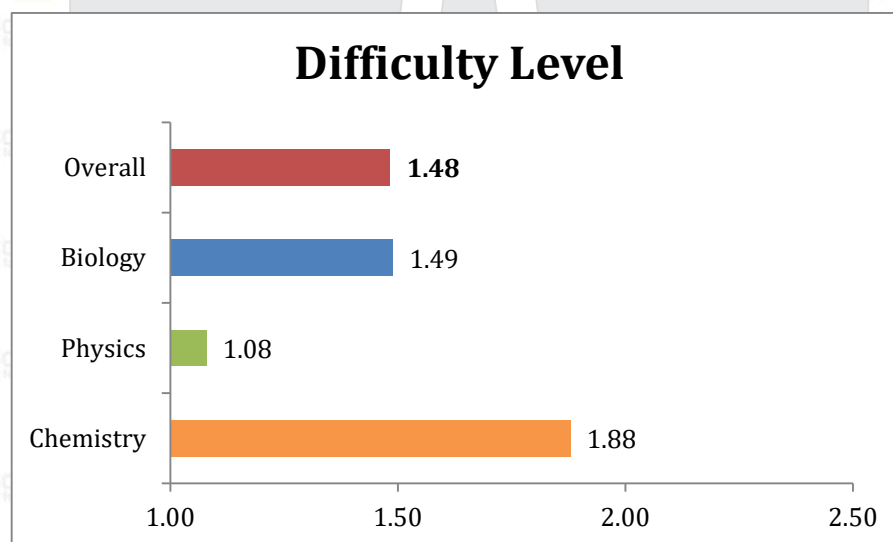
Difficulty Level Analysis: Number of Questions

Subject	Easy Level		Medium Level		Difficult Level	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Chemistry	11	44	34	136	5	20
Physics	46	184	4	16	0	0
Biology	62	248	27	108	11	44
Grand Total	119	476	65	260	16	64



Difficulty Level Comparison from previous year papers:

Subject	2023	2022	2021	2020	2019	2018	2017
Biology	1.49	1.63	1.42	1.35	1.36	1.6	2.16
Chemistry	1.88	1.92	1.44	1.5	1.4	1.95	1.36
Physics	1.08	1.60	1.86	1.7	1.76	2.31	1.93
Overall	1.48	1.72	1.70	1.52	1.47	1.87	1.91



Subject Wise Analysis

PHYSICS ANALYSIS (TOPIC WISE ALLOCATION OF MARKS)

PHYSICS			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Physics	50	200	100%
Alternating Current	3	12	6%
Average, peak and rms values	3	12	6%
Capacitance	1	4	2%
Definition of capacitance	1	4	2%
Current Electricity	5	20	10%
Definition of Current, Current Densities, Drift	5	20	10%
Electro Magnetic Field	3	12	6%
Magnet and Magnetic field due to a moving charge	3	12	6%
Electro Magnetic Induction	1	4	2%
Flux and faraday's laws of electromagnetic induction	1	4	2%
Electrostatics	3	12	6%
Properties of charge and Coulomb's Law	3	12	6%
Friction	1	4	2%
Kinetic friction	1	4	2%
Gravitation	2	8	4%
Universal law of gravitation	2	8	4%
Modern Physics	5	20	10%
Photoelectric Effect	5	20	10%
Rigid body dynamics	1	4	2%
Kinematics	1	4	2%
Surface Tension	1	4	2%
Surface tension, Surface energy and capillary rise	1	4	2%
Wave Optics	1	4	2%
Principle of superposition, path difference, Wavefronts, and coherence	1	4	2%
Projectile motion	1	4	2%
Definition, Projectile on a horizontal plane	1	4	2%

UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Newton's laws of motion	1	4	2%
Type of forces, newton's third law, free body diagram	1	4	2%
KTG and Thermodynamics	2	8	4%
Kinetic Theory of gases	2	8	4%
Solid and Semiconductor	3	12	6%
Semiconductor, Energy Band	3	12	6%
Measurement Error	2	8	4%
Measurement Error	2	8	4%
Sound Wave	1	4	2%
Equation of sound wave, wavelength, frequency, pressure and displacement amplitude	1	4	2%
Geometrical Optics	3	12	6%
Plane Mirror	3	12	6%
Electromagnetic waves	2	8	4%
Electromagnetic waves	2	8	4%
Rectilinear motion	2	8	4%
Distance and Displacement	2	8	4%
Fluid mechanics	1	4	2%
Measurement and calculation of pressure	1	4	2%
Work, Power, Energy	2	8	4%
Work Done By Constant Force	2	8	4%
Elasticity and viscosity	2	8	4%
Elastic behaviour longitudinal stress, young modulus	2	8	4%
Simple Harmonic motion	1	4	2%
Equation of SHM	1	4	2%

CHEMISTRY ANALYSIS (TOPIC WISE ALLOCATION OF MARKS)

CHEMISTRY			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Chemistry	50	200	100%
Physical Chemistry	15	60	30%
Chemical Equilibrium	1	4	2%
Properties of Equilibrium, Law of mass action, Equilibrium constant and its properties, Factors affecting Equilibrium constant, Unit of KC and KP	1	4	2%
Chemical Kinetics	2	8	4%
Rate of reaction, Factors affecting rate of reaction	2	8	4%
Electrochemistry	2	8	4%
Basic Terminology, Construction of Electrochemical Cell and Its Representation	2	8	4%
Gaseous State	1	4	2%
Gas Laws (Boyle, Charles, Gaylussac, Avogadro's Law, Ideal Gas Equation)	1	4	2%
Mole Concept	1	4	2%
Units, Atoms, Molecules, Atomic mass, Molecular mass, Gram atomic mass, Gram molecular mass, RAM, Average atomic mass	1	4	2%
Solid State	2	8	4%
Basics of Solid State	2	8	4%
Surface Chemistry	1	4	2%
Adsorption	1	4	2%
Solution Colligative Properties	1	4	2%
Concentration terms	1	4	2%
Atomic Structure	2	8	4%
Cathode, Anode rays, Basic definitions and Rutherford atomic model	2	8	4%
Redox Reaction	1	4	2%
Calculation of oxidation number	1	4	2%
Thermodynamics	1	4	2%
Basic definitions	1	4	2%

UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Inorganic Chemistry	17	68	34%
Chemical Bonding	4	16	8%
Introduction to Bonding and Ionic bond	4	16	8%
Metallurgy	2	8	4%
ORES and method of concentration	2	8	4%
Periodic Table	2	8	4%
Development of Periodic Table, Period, Group and Block	2	8	4%
S-Block Element	2	8	4%
Electronic configuration and Physical Properties of alkali metals	2	8	4%
P-Block Element (B and C)	1	4	2%
Physical and chemical properties of Group 13th elements	1	4	2%
Coordination Compound	2	8	4%
General introduction of complex salts and definitions to be used	2	8	4%
Hydrogen Compounds	1	4	2%
Position of hydrogen in the periodic table; methods of preparation and properties	1	4	2%
P-Block (Nitrogen and Oxygen)	1	4	2%
Physical and Chemical properties of Group 15th elements	1	4	2%
d-f-Block Element Compound	2	8	4%
Electronic configuration, atomic and ionic size, density, melting and boiling points	2	8	4%

UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Organic Chemistry	18	72	36%
Environmental Chemistry	1	4	2%
Gaseous air pollutants	1	4	2%
Aromatic Compound	2	8	4%
Aromaticity	2	8	4%
Reaction Mechanism	3	12	6%
Solvent, Electrophile, Nucleophile and Leaving group ability	3	12	6%
Biomolecule and Polymer	2	8	4%
Carbohydrate : Monosaccharide, Disaccharide, Polysaccharide	2	8	4%
Hydrocarbon part-I	1	4	2%
Alkane	1	4	2%
General Organic Chemistry	1	4	2%
Inductive effect	1	4	2%
Chemistry in Every day life	1	4	2%
Chemistry in every day life	1	4	2%
Carboxylic acid and Derivatives	3	12	6%
Preparation of Carbonyl Compounds	3	12	6%
Grignard Reagent	1	4	2%
Grignard Reagent	1	4	2%
IUPAC nomenclature	3	12	6%
Fundamental of Organic Chemistry	3	12	6%

BIOLOGY ANALYSIS (TOPIC WISE ALLOCATION OF MARKS)

Biology			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Biology	100	400	100%
Biology (Botany)	50	200	100%
Cell Biology	5	20	10%
Introduction, Prokaryotic Cell	5	20	10%
Ecology-Biodiversity and Conservation	2	8	4%
Introduction, Level of biodiversity, Pattern of biodiversity, Loss of biodiversity	2	8	4%
Plant Kingdom	2	8	4%
Plant Kingdom-Algae	2	8	4%
Genetics-I	3	12	6%
INTRODUCTION, MENDELISM, MONOHYBRID CROSS, DIHYBRID CROSS, BACK CROSS, TEST CROSS, INCOMPLETE DOMINANCE, CODOMINANCE, MULTIPLE ALLELISM, PLEIOTROPY	3	12	6%
Sexual Reproduction in Flowering Plants	4	16	8%
Sexual reproduction: Introduction	4	16	8%
Ecology-Ecosystem	2	8	4%
Introduction, Biotic components of ecosystem	2	8	4%
Anatomy of Flowering Plants	3	12	6%
Plant Tissues, Tissue System	3	12	6%
Application Biology (Biotechnology)	4	16	8%
Principles of Biotechnology	4	16	8%
Morphology of Flowering Plants	3	12	6%
Root	3	12	6%
Plant Physiology-II-Plant growth and Growth Hormones	3	12	6%
Growth and Development	3	12	6%
Plant Physiology-II-Photosynthesis In Higher Plants	4	16	8%
Introduction (Early experiments), site of photosynthesis and photosynthetic pigments	4	16	8%
Ecology-Environmental Issues	1	4	2%
Types of pollutants, Types of pollution-Air pollution, Noise pollution, Acid rain, Ozone depletion, Water pollution	1	4	2%

UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Genetics-II	4	16	8%
NUCLEIC ACIDS (THE SEARCH FOR GENETIC MATERIAL, DNA, RNA)	4	16	8%
Plant Physiology-I-Mineral Nutrition	2	8	4%
Methods to study mineral requirements of plants, Essential mineral elements, Role of macro and micronutrients, deficiency symptoms of essential elements, Toxicity of micronutrients	2	8	4%
Plant Physiology-I-Transport in plants	3	12	6%
Diffusion, Facilitated diffusion, osmosis, Active transport, DPD, Water potential plasmolysis, imbibition	3	12	6%
Biomolecule-I	1	4	2%
Carbohydrates	1	4	2%
Ecology-Organisms and Population	2	8	4%
Introduction, Abiotic factors, Responses to abiotic factors	2	8	4%
Plant Physiology-II-Respiration in plants	1	4	2%
Introduction, Glycolysis and Fermentation	1	4	2%
Biomolecule-II	1	4	2%
Nucleic Acids	1	4	2%
Biology (Zoology)	50	200	100%
Cell Biology	4	16	8%
Introduction, Prokaryotic Cell	4	16	8%
Genetics-I	2	8	4%
INTRODUCTION, MENDELISM, MONOHYBRID CROSS, DIHYBRID CROSS, BACK CROSS, TEST CROSS, INCOMPLETE DOMINANCE, CODOMINANCE, MULTIPLE ALLELISM, PLEIOTROPY	2	8	4%
Application Biology (Biotechnology)	2	8	4%
Principles of Biotechnology	2	8	4%
Ecology-Environmental Issues	1	4	2%
Types of pollutants, Types of pollution-Air pollution, Noise pollution, Acid rain, Ozone depletion, Water pollution	1	4	2%
Genetics-II	3	12	6%
NUCLEIC ACIDS (THE SEARCH FOR GENETIC MATERIAL, DNA, RNA)	3	12	6%
Ecology-Organisms and Population	2	8	4%
Introduction, Abiotic factors, Responses to abiotic factors	2	8	4%

UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Biomolecule-II	1	4	2%
Nucleic Acids	1	4	2%
Body fluids and circulation	3	12	6%
heart and conduction	3	12	6%
Animal Kingdom-1	4	16	8%
Porifera	4	16	8%
Human Reproduction and Reproductive Health	6	24	12%
Male Reproductive System	6	24	12%
Excretory Product and Their Elimination	1	4	2%
Homeostasis and Osmoregulation	1	4	2%
Neural Control and Coordination	2	8	4%
Nervous Tissue	2	8	4%
Digestion and Absorption	2	8	4%
Nutrition	2	8	4%
Structural organisation in animals	1	4	2%
Connective tissue	1	4	2%
Locomotion and Movement	2	8	4%
Muscles	2	8	4%
Biology In Human Welfare-Human Health and Disease	3	12	6%
Diseases caused by virus	3	12	6%
Breathing and Exchange of Gases	1	4	2%
Respiratory organ	1	4	2%
Origin and Evolution	2	8	4%
Origin of Life	2	8	4%
Chemical Coordination and Integration	3	12	6%
Endocrine Gland	3	12	6%
Biology In Human Welfare-Microbes in human Welfare	1	4	2%
Microbes in human Welfare	1	4	2%
Structural Organisation in Animal	1	4	2%
Epithelial tissue	1	4	2%
Animal Kingdom-2	2	8	4%
Chordata	2	8	4%
Biology In Human Welfare-Strategies for Enhancement of Food Production in Animal	1	4	2%
Strategies for Enhancement of Food Production in Animal	1	4	2%

CONCLUSION:

Overall the paper was found to be easy to moderate and easier than NEET 2022.

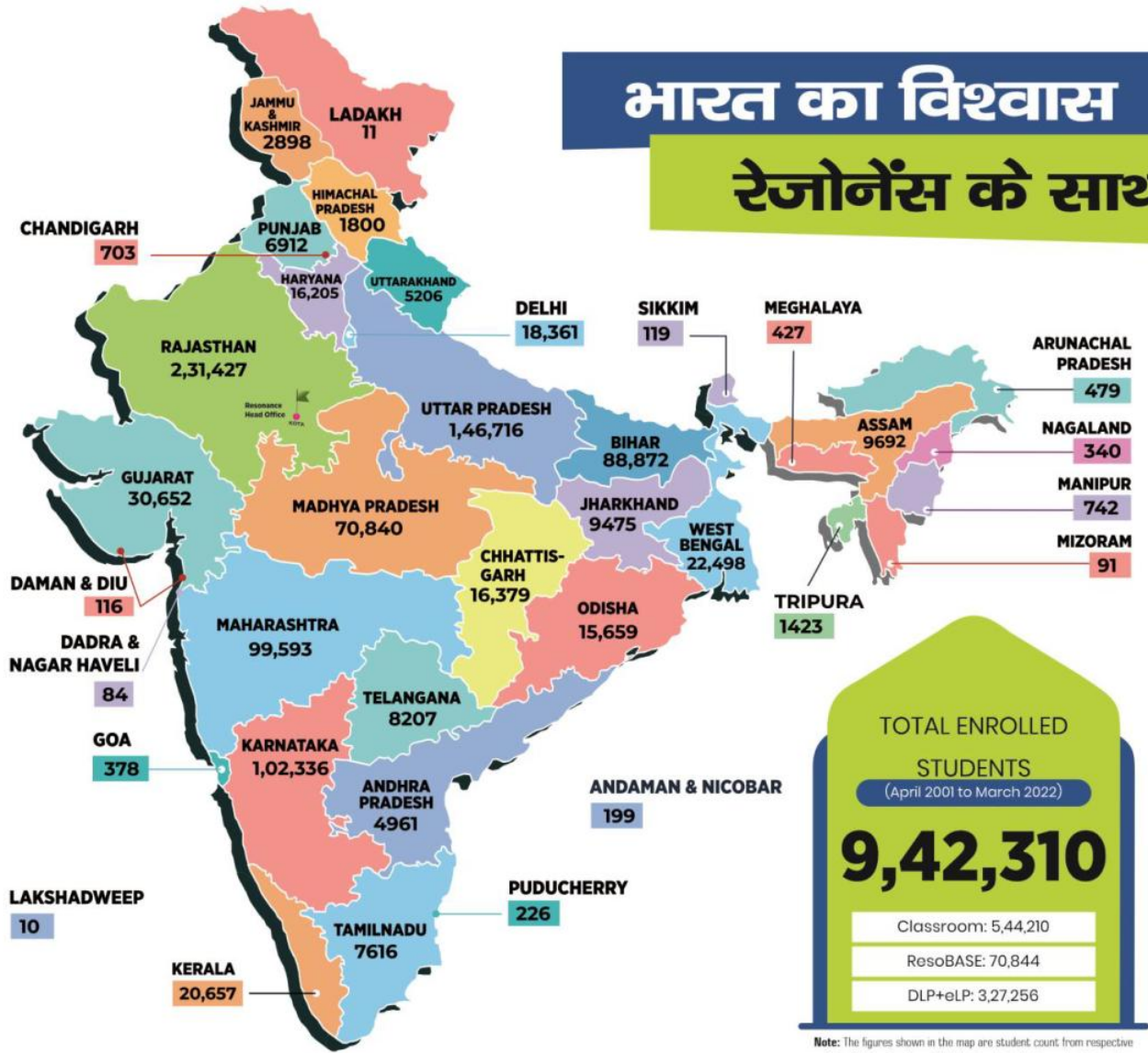
In Biology, maximum questions were from NCERT and Easy to Moderate level but around 11 questions were analytical hence they would be considered as tough. In Chemistry, around 35 questions from total 50 were from NCERT and paper was not so calculative. In Physics, almost all questions were formula / definition based and easier than last year. This year paper contains straight line MCQ, assertion reason type questions, statement type questions, matching types questions.

Since the paper is easy than last year, the expected cutoff should be increased and is expected to be around 610 for MBBS govt. seat for Gen. category for AIQ.

***** DOCUMENT END *****

भारत का विश्वास

रेजोनेंस के साथ



Resonance : The Legacy of 21 Years (2001-2022) of Academic Excellence

JEE (Adv.) / IIT-JEE ▶ **50 हजार +** SELECTIONS SINCE 2002
229 AIRs in TOP-100 (Classroom + DLP)

JEE (Main) / AIEEE ▶ **2.40 लाख +** SELECTIONS SINCE 2009
136 AIRs in TOP-100 (Classroom + DLP)

NEET (UG) / AIPMT ▶ **19 हजार +** SELECTIONS SINCE 2012
19 AIRs in TOP-100 (Classroom + DLP)

NTSE SINCE 2006 ▶ **2440** Scholars

KVPY SINCE 2006 ▶ **2859** Fellowship Winners

OLYMPIADS SINCE 2006 ▶ **52** Medalists (Gold/Silver/ Bronze) in International Olympiads

CA & CS SINCE 2013 ▶ **4179** Selections **5 Times AIR-1 in CA & CS Exams**

CLAT, SET & GPTU SINCE 2014 ▶ **77** Selections **AIR-1 in GPTU**