AIPMT (NEET) - 2016

A Detailed Analysis by Resonance

As per the directions of honorable Supreme Court, NEET 2016 was conducted as per the schedule (01st May 2016) decided for AIPMT 2016. This exam is conducted for entrance into state and national level medical colleges for MBBS, BDS, BAMS, BHS courses). NEET exam was first conducted in 2013 and now has been re-introduced.

DETAILS OF NEET - 2016

NEET 2016 was conducted in one paper consisting of 45 questions each from Physics and Chemistry, and 90 questions from Biology which consists of Zoology and Botany subjects (180 questions in total). The exam was conducted on 01st May from 10:00 am to 01:00 pm.

Given below is the subject wise detailed analysis of NEET-2016 question paper.

OVERALL MARKS DISTRIBUTION

The paper pattern was same as that of AIPMT 2015. The paper had 180 questions each worth 4 marks. All questions were objective type with single correct option. If we talk about subject wise, then there were 45 questions from Physics and Chemistry, and 90 questions were from Biology (Zoology and Botany sections of Biology).

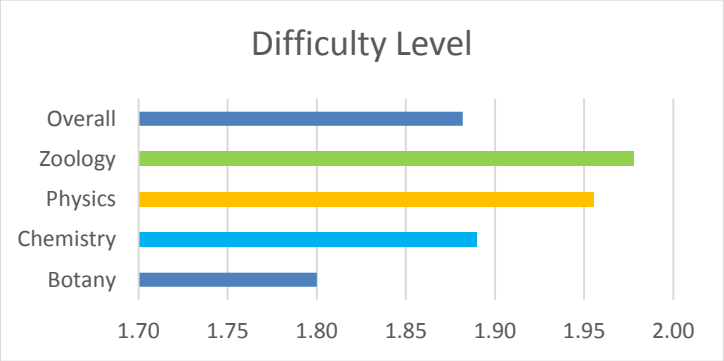
Subject	Class XI		Class XII		Overall	
	Number of Questions	Total Marks	Number of Questions	Total Marks	Number of Questions	Total Marks
Botany	27	108	18	72	45	180
Chemistry	15	60	30	120	45	180
Physics	22	88	23	92	45	180
Zoology	21	84	24	96	45	180
Grand Total	**85**	**340**	**95**	**380**	**180**	**720**

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

Subject	Difficulty Level 2016	Difficulty Level 2015
Botany	1.80	1.84
Chemistry	1.89	1.60
Physics	1.96	1.87
Zoology	1.98	1.84
Overall	1.91	1.74



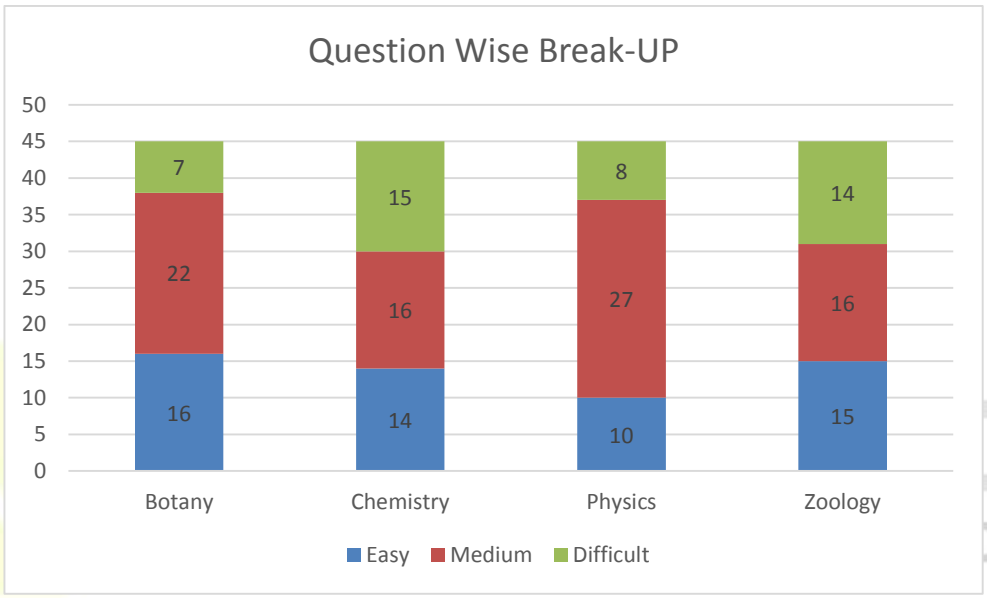
Difficulty Level Analysis: No of Questions

Subject	Easy Level		Medium Level		Difficult Level	
	Number of Questions	Total Marks	Number of Questions	Total Marks	Number of Questions	Total Marks
Botany	16	64	22	88	7	28
Chemistry	14	56	16	64	15	60
Physics	10	40	27	108	8	32
Zoology	15	60	16	64	14	56
Grand Total	**55**	**220**	**81**	**324**	**44**	**176**

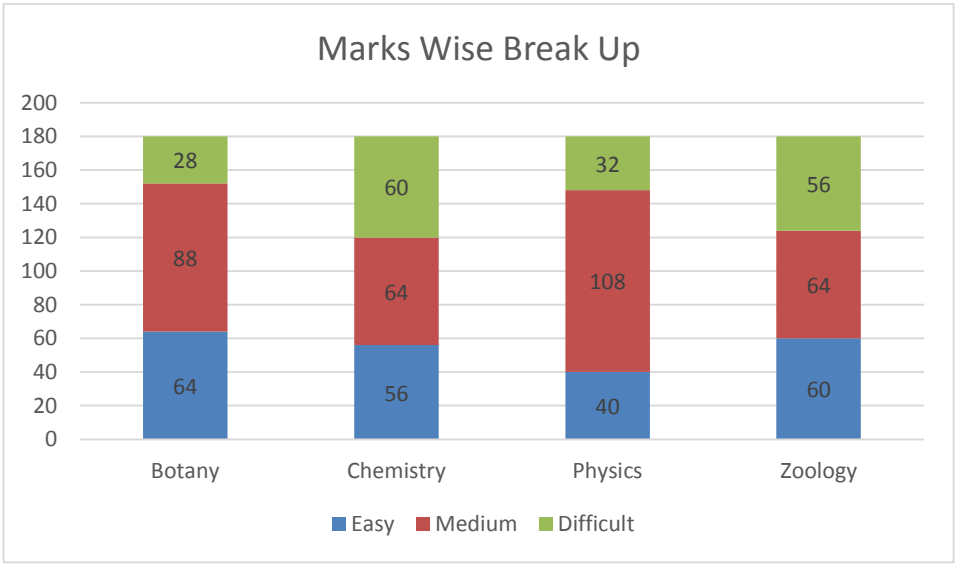
Resonance Experts feel that all subjects were of similar difficulty level, while Physics was on marginally tougher side compared to Biology & Chemistry. While around 220 Marks can be considered easy overall, 324 marks are moderately difficulty and 176 marks are considered difficult by Resonance Team.

Overall, it is felt by Resonance Faculty Team that paper was on tough as compared to last year and the cut-off is expected to be lower than that of last year.

Question Wise Difficulty Breakup



Marks Wise Difficulty Breakup



PHYSICS ANALYSIS

UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Physics	**45**	**180**	**100.00%**
Alternating Current	**2**	**8**	**4.44%**
Power	1	4	2.22%
Power Calculation in AC	1	4	2.22%
Capacitance	**1**	**4**	**2.22%**
Charging/ Discharging	1	4	2.22%
Circular Motion	**3**	**12**	**6.67%**
Banking	1	4	2.22%
Horizontal Circular Motion	1	4	2.22%
Vertical Circular Motion	1	4	2.22%
Current Electricity	**2**	**8**	**4.44%**
Electrical Instruments	1	4	2.22%
Power Calculation	1	4	2.22%
Electromagnetic Waves	**1**	**4**	**2.22%**
Introduction	1	4	2.22%
Electrostatics	**2**	**8**	**4.44%**
Coulomb's Law	2	8	4.44%
Fluid Mechanics	**1**	**4**	**2.22%**
Archimedes Principle	1	4	2.22%
Geometrical Optics	**3**	**12**	**6.67%**
Magnification	1	4	2.22%
Optical Instruments	1	4	2.22%
Prism	1	4	2.22%
Gravitation	**2**	**8**	**4.44%**
Escape Velocity	1	4	2.22%
Gravitation Potential	1	4	2.22%
Heat Transfer	**3**	**12**	**6.67%**
Conductivity	1	4	2.22%
Radiations	1	4	2.22%
Refrigeration	1	4	2.22%
Magnetic Effects of Current	**4**	**16**	**8.89%**
Magnetic Field	2	8	4.44%
Magnetic Properties	1	4	2.22%
Solenoid	1	4	2.22%
Mathematical Tools	**2**	**8**	**4.44%**
Vector Algebra	2	8	4.44%
Mechanics	**2**	**8**	**4.44%**

Newton Law of Motion	1	4	2.22%
Rectilinear Motion	1	4	2.22%
Modern Physics	**3**	**12**	**6.67%**
Bohr Model	1	4	2.22%
De Broglie's Principle	1	4	2.22%
Photoelectric Effect	1	4	2.22%
Rigid Body Dynamics	**3**	**12**	**6.67%**
Centre of Mass	1	4	2.22%
Moment of Inertia	1	4	2.22%
Torque	1	4	2.22%
Semiconductor Devices	**3**	**12**	**6.67%**
Circuit Problems	1	4	2.22%
Logic Gates	1	4	2.22%
Transistors	1	4	2.22%
SHM and String Waves	**1**	**4**	**2.22%**
String Waves	1	4	2.22%
Sound Waves	**2**	**8**	**4.44%**
Doppler Effect	1	4	2.22%
Resonance Tube	1	4	2.22%
Thermodynamics	**3**	**12**	**6.67%**
Adiabatic Processes	1	4	2.22%
Calorimetry	1	4	2.22%
Kinetic Theory of Gases	1	4	2.22%
Wave Optics	**2**	**8**	**4.44%**
Diffraction	1	4	2.22%
Young's Double Slit Experiment	1	4	2.22%
Grand Total	**45**	**180**	**100.00%**

CHEMISTRY ANALYSIS

UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Chemistry	**45**	**180**	**100.00%**
Inorganic Chemistry	**15**	**60**	**33.33%**
Chemical Bonding	4	16	8.89%
coordination compounds	1	4	2.22%
D-Block	1	4	2.22%
Hydrogen	1	4	2.22%
Metallurgy	1	4	2.22%
P-Block	4	16	8.89%

Periodic Table	3	12	6.67%
Organic Chemistry	**16**	**64**	**35.56%**
Alcohol	1	4	2.22%
Aldehydes and Ketones	2	8	4.44%
Amines	1	4	2.22%
Biomolecules	3	12	6.67%
Chemistry in everyday life	2	8	4.44%
Ether	1	4	2.22%
GOC	1	4	2.22%
Hydrocarbon	2	8	4.44%
Isomerism	2	8	4.44%
Polymers	1	4	2.22%
Physical Chemistry	**14**	**56**	**31.11%**
Atomic Structure	1	4	2.22%
Chemical Equilibrium	1	4	2.22%
Chemical Kinetics	2	8	4.44%
electrochemistry	1	4	2.22%
Gaseous State	1	4	2.22%
Ionic Equilibrium	1	4	2.22%
Solid State	2	8	4.44%
Solution and colligative properties	2	8	4.44%
surface chemistry	1	4	2.22%
Thermodynamics	2	8	4.44%
Grand Total	**45**	**180**	**100.00%**

BIOLOGY ANALYSIS

UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Zoology	**45**	**180**	**100.00%**
Animal Diversity	**1**	**4**	**2.22%**
General Knowledge	1	4	2.22%
Animal Physiology	**5**	**20**	**11.11%**
Circulatory System	1	4	2.22%
Digestive System	2	8	4.44%
Respiratory System	2	8	4.44%
Animal World	**4**	**16**	**8.89%**
Animal Kingdom	4	16	8.89%
Biomolecules	**3**	**12**	**6.67%**

Amino Acids	1	4	2.22%
Carbohydrate	1	4	2.22%
Lipid	1	4	2.22%
Biotechnology	**6**	**24**	**13.33%**
Application of Biotechnology	1	4	2.22%
DNA Fingerprinting	2	8	4.44%
Operon Model	1	4	2.22%
Plasmid	1	4	2.22%
Polymerage Chain Reaction	1	4	2.22%
Endocrine System	**3**	**12**	**6.67%**
Endocrine Glands	3	12	6.67%
Evolution	**4**	**16**	**8.89%**
Analogous Organs	1	4	2.22%
Homologous Organs	1	4	2.22%
Origin of Life	1	4	2.22%
Theory of Evolution	1	4	2.22%
Health and Disease	**4**	**16**	**8.89%**
Cancer	1	4	2.22%
Immunology	3	12	6.67%
Human Physiology	**4**	**16**	**8.89%**
Nervous System	1	4	2.22%
Respiratory System	3	12	6.67%
Living World	**1**	**4**	**2.22%**
Biological Classification	1	4	2.22%
Microbes	**2**	**8**	**4.44%**
Microbes useful to human welfare	2	8	4.44%
Pollution	**1**	**4**	**2.22%**
Water Pollution	1	4	2.22%
Reproduction	**6**	**24**	**13.33%**
Female Reproduction	2	8	4.44%
Human Reproduction	2	8	4.44%
Reproductive Health	2	8	4.44%
Tissue	**1**	**4**	**2.22%**
Structural Organisation of Animal	1	4	2.22%
Cell	**3**	**12**	**6.67%**
Cell division	2	8	4.44%
Cell Organelles	1	4	2.22%
Cell Biology	**1**	**4**	**2.22%**
Cell Organelles	1	4	2.22%
Cell: Structure and Function	**3**	**12**	**6.67%**

Cell Cycle	1	4	2.22%
Cell Cycle and division	1	4	2.22%
Cell: The unit of life	1	4	2.22%
Cell: The Unit of Life	**1**	**4**	**2.22%**
Cell	1	4	2.22%
Diversity in Living World	**6**	**24**	**13.33%**
Biological Classification	1	4	2.22%
Plant Kingdom	5	20	11.11%
Ecology	**7**	**28**	**15.56%**
Biodiversity and Conservation	3	12	6.67%
ecosystem	2	8	4.44%
Environmental Issues	1	4	2.22%
Organism and Population	1	4	2.22%
Genetics	**5**	**20**	**11.11%**
molecular basis of inheritance	1	4	2.22%
Principle of Inheritance and variation	4	16	8.89%
Plant Physiology	**7**	**28**	**15.56%**
Mineral Nutrition	1	4	2.22%
Photosynthesis	5	20	11.11%
Plant growth and development	1	4	2.22%
Principle of Inheritance and Variation	**1**	**4**	**2.22%**
Genetics	1	4	2.22%
Reproduction	**5**	**20**	**11.11%**
Sexual Reproduction in flowering plants	5	20	11.11%
Structural Organisation of Plant and Animals	**6**	**24**	**13.33%**
Anatomy of Flowering Plants	2	8	4.44%
Morphology of Plants	4	16	8.89%
Grand Total	**90**	**360**	**100.00%**

EXPECTED CUTOFF

NEET - 2016: TENTATIVE# CUTOFF TABLE			
CATEGORY	**% RESERVATION**	**CUT-OFF MARKS***	**% CUTOFF**
Unreserved	50.5%	439	60.8
OBC (NCL)	27.0%	433	60.1
SC	15.0%	296	41.1
ST	7.5%	288	40
TOTAL	**100.0%**		
NEET - 2016: Maximum Marks			720
# The Cut-off of NEET - 2016 is estimated on the basis of Previous Year Data and Toughness Analysis of NEET - 2015 Paper by Resonance Experts. These are not official data released by Authorities concerned.			