

Paper Analysis - AIPMT (NEET) - 2016

As per the directions of Honorable Supreme Court, NEET 2016 was conducted as per the schedule on 1st May 2016 which was decided for AIPMT 2016 this year. This exam was conducted for getting entrance into State and National level medical colleges for courses in MBBS, BDS, BAMS & BHS. NEET exam was first conducted in 2013 and now has been re-introduced after giving gap of 2 years.

Details of NEET – 2016

Paper of NEET 2016 consisted 45 questions each from Physics and Chemistry, and 90 questions from Biology combining Zoology and Botany subjects thereby making 180 questions in total. This exam was conducted on 01st May from 10:00 am to 01:00 pm. Below, you can see the subject wise detailed analysis of NEET-2016 question paper.

Overall Marks Distribution

The paper pattern of NEET 2016 was same as that of AIPMT 2015 last year. The paper had 180 questions each carried 4 marks. All questions were of objective type with single correct option.

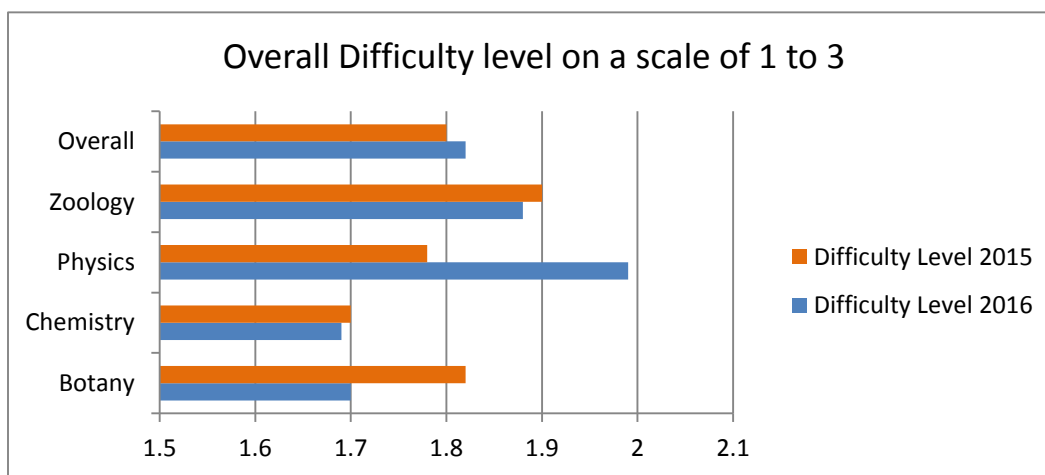
Subject	Class XI		Class XII		Overall	
	Number of Questions	Total Marks	Number of Questions	Total Marks	Number of Questions	Total Marks
Botany	27	108	18	72	45	180
Chemistry	15	60	30	120	45	180
Physics	22	88	23	92	45	180
Zoology	21	84	24	96	45	180
Grand Total	85	340	95	380	180	720

Overall Difficulty Level Analysis

In this analysis, every question is rated on a scale of 1 to 3. The individual ratings are then averaged to calculate overall difficulty level.

1: Easy 2: Moderate 3: Difficult

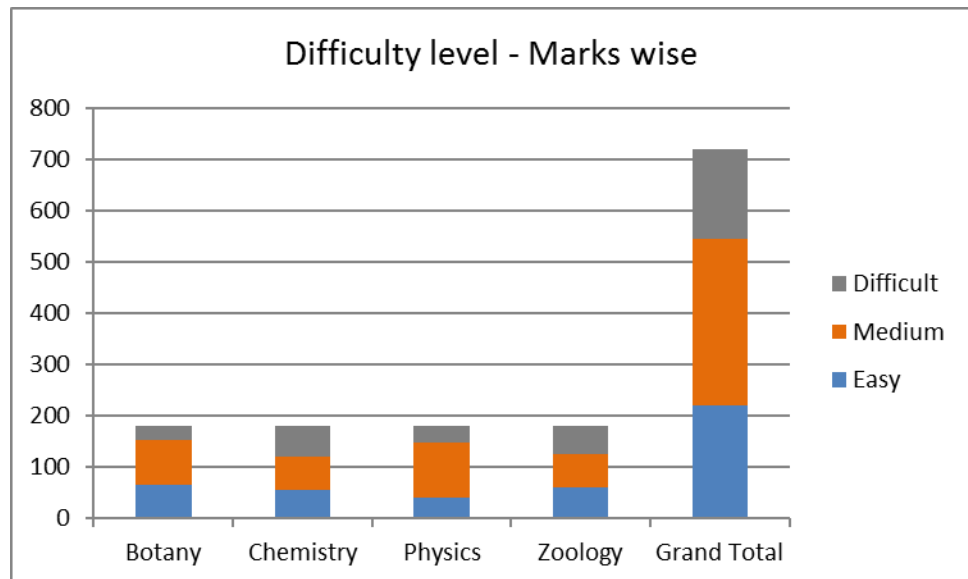
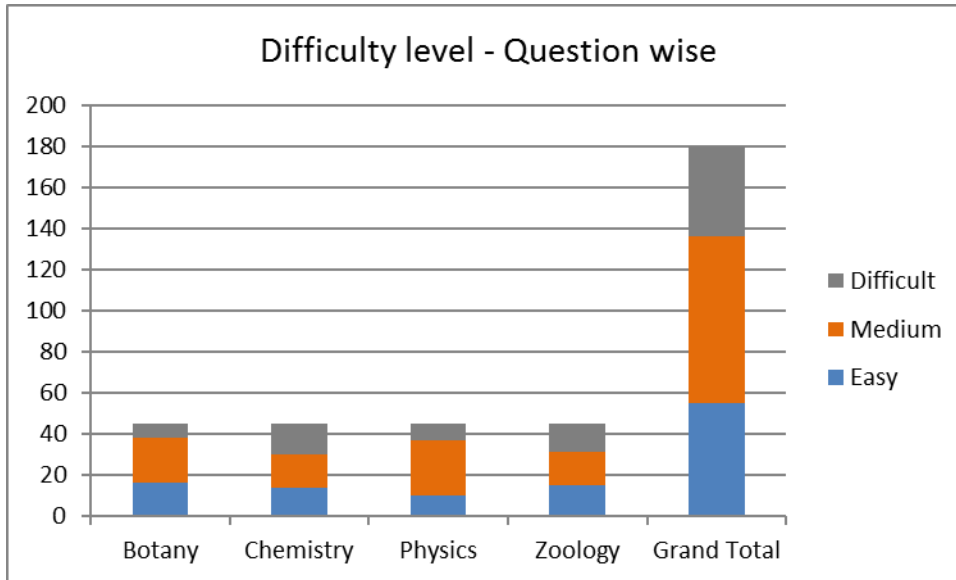
Subject	Difficulty Level 2016	Difficulty Level 2015
Botany	1.7	1.82
Chemistry	1.69	1.7
Physics	1.99	1.78
Zoology	1.88	1.9
Overall	1.82	1.8



Difficulty Level Analysis: No of Questions

Subject	Easy		Medium		Difficult	
	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

askITians experts feel that although all subjects had similar difficulty level but Physics was on tougher side when compared to Biology & Chemistry. Overall, it is felt that while paper was tough as compared to last year, the cut-off is expected to be lower than that of last year.



Subject Wise Analysis

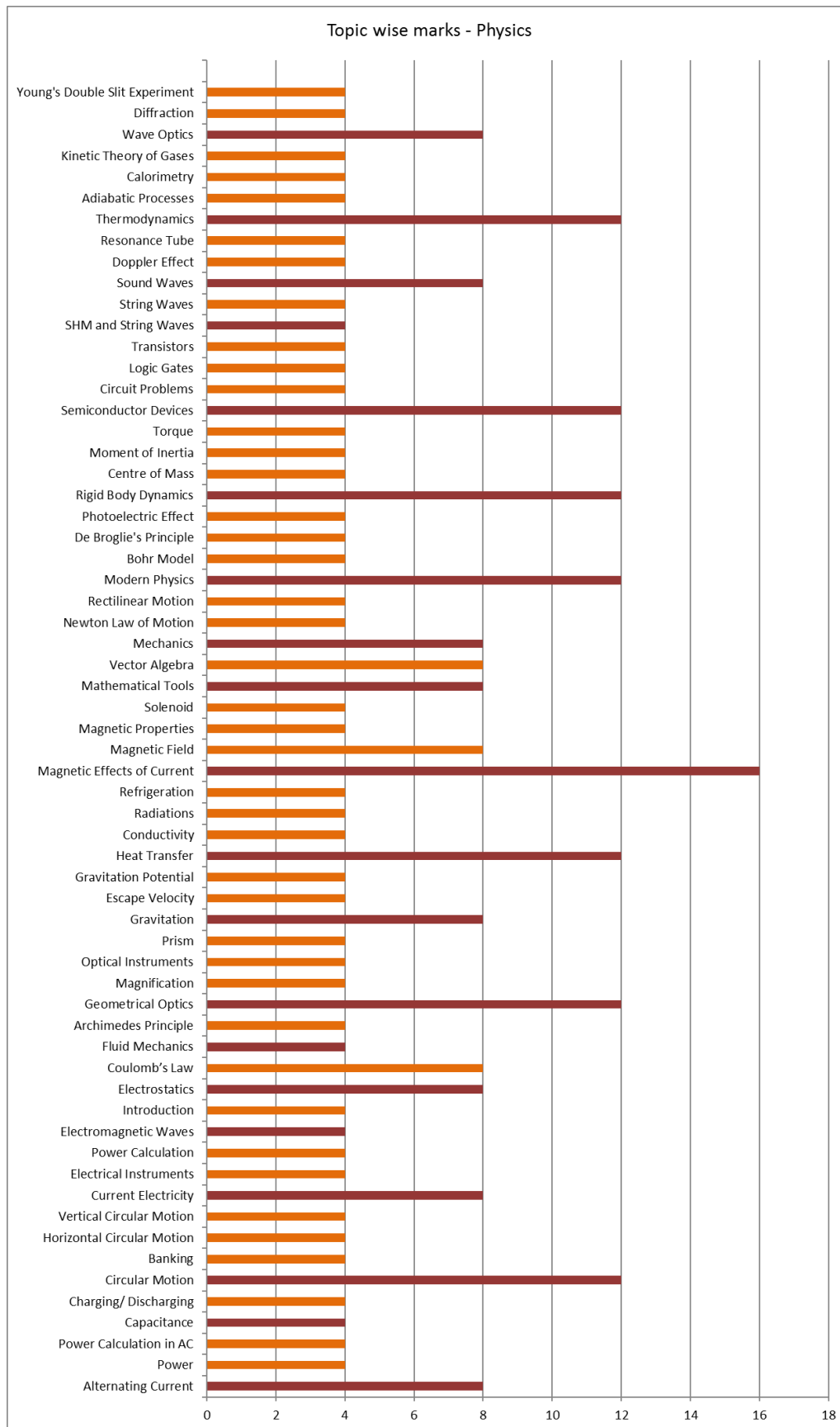
A – Physics

Topic wise allocation of # of Questions & Marks

Unit & Topic Name	No. of Questions	Total Marks	(%) Weightage
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%

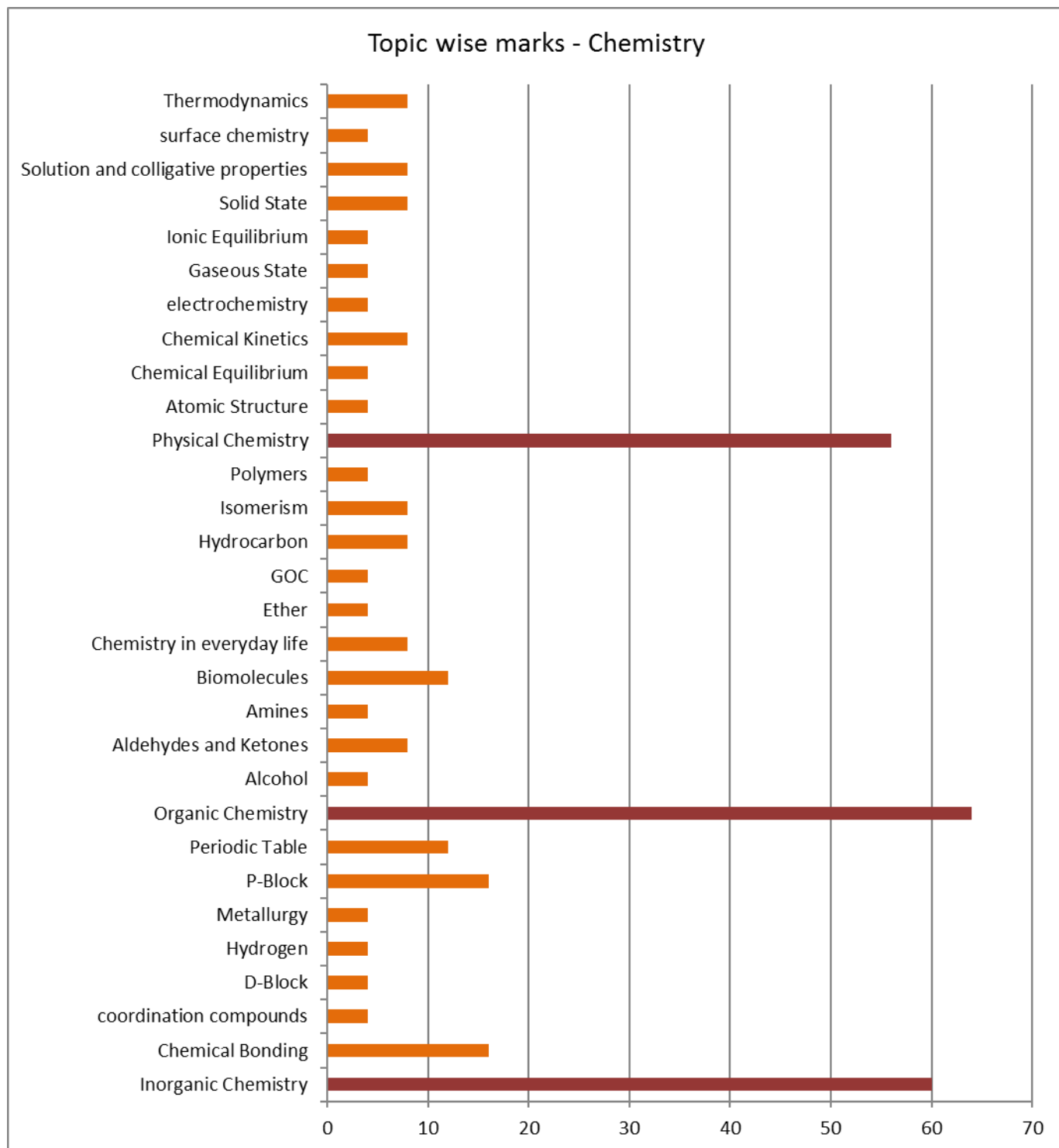
Torque	1	4	2.22%
Semiconductor Devices	3	12	6.67%
Circuit Problems	1	4	2.22%
Logic Gates	1	4	2.22%
Transistors	1	4	2.22%
SHM and String Waves	1	4	2.22%
String Waves	1	4	2.22%
Sound Waves	2	8	4.44%
Doppler Effect	1	4	2.22%
Resonance Tube	1	4	2.22%
Thermodynamics	3	12	6.67%
Adiabatic Processes	1	4	2.22%
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%



B - Chemistry

Topic wise allocation of # of Questions & Marks

Unit & Topic Name	No. of Questions	Total Marks	(%) Weightage
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	2	8	4.44%
surface chemistry	1	4	2.22%
Thermodynamics	2	8	4.44%
Grand Total	45	180	100.00%



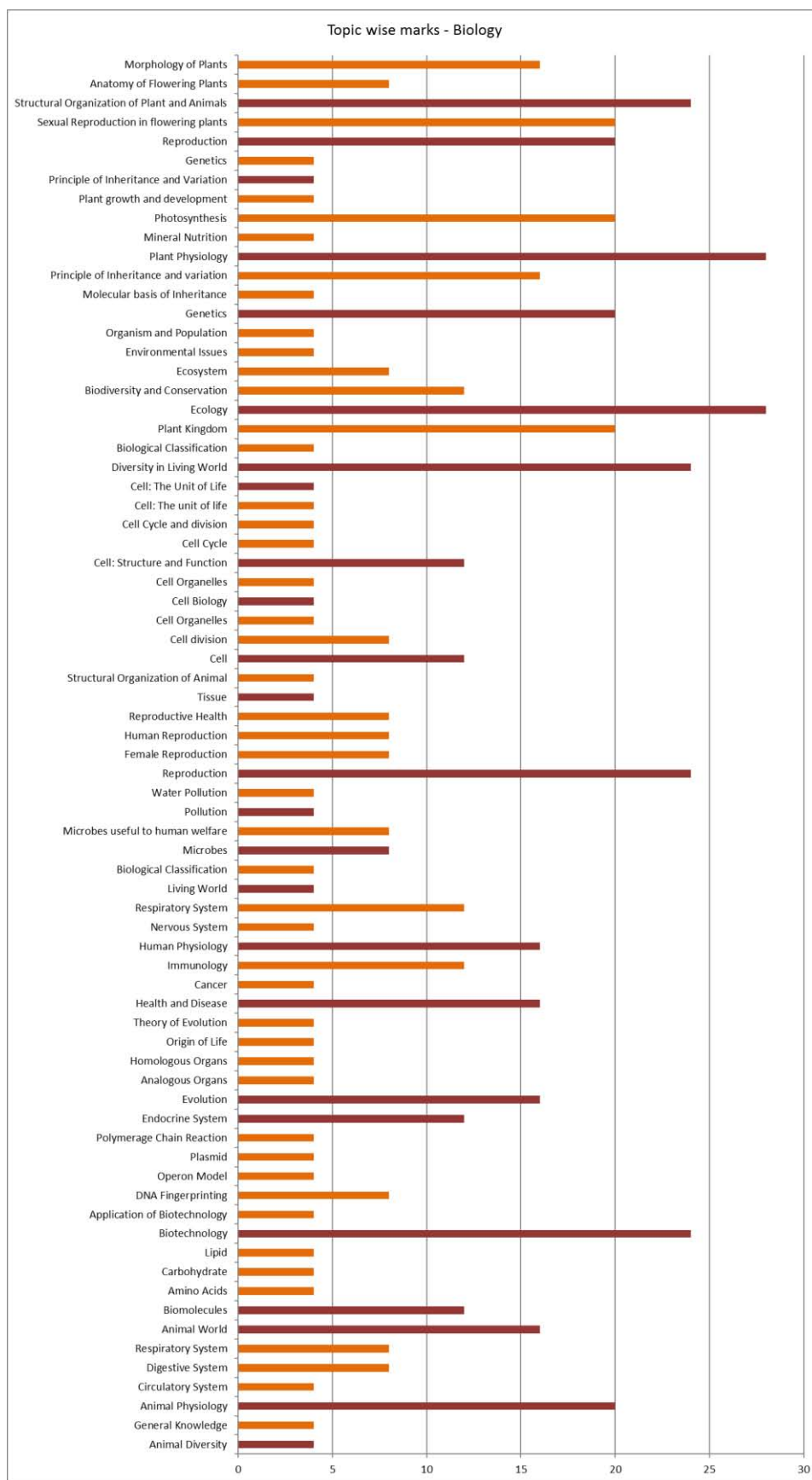
C - Biology

Topic wise allocation of # of Questions & Marks

Unit & Topic Name	No. of Questions	Total Marks	(%) Weightage
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%
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%
Polymerase Chain Reaction	1	4	2.22%
Endocrine System	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 Organization 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%
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 Organization of Plant and	6	24	13.33%
Anatomy of Flowering Plants	2	8	4.44%
Morphology of Plants	4	16	8.89%
Grand Total	90	360	100%



Reservation of Seats and Expected Cutoff

NEET - 2016: Tentative[#]			
CATEGORY	% RESERVATION	CUT-OFF MARKS	% CUTOFF
Unreserved	51%	443	61.5
OBC (NCL)	27%	429	59.6
SC	15%	285	39.6
ST	7%	282	39.17
TOTAL	100.0%		
NEET - 2016: Maximum Marks			720

The Cut-off of NEET - 2016 is estimated on the basis of previous year data & paper analysis of this year. This is not an official data released by concerned authorities and just an estimation.