

## NEET - 2 2016

### A Detailed Analysis by Resonance

As per the directions of honorable Supreme Court, NEET-2 2016 was conducted as per the schedule (24<sup>th</sup> July 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-2 2016

NEET-2 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 24<sup>th</sup> July from 10:00 am to 01:00 pm.

Given below is the subject wise detailed analysis of NEET- 2 2016 question paper.

#### OVERALL MARKS DISTRIBUTION

The paper pattern was same as that of NEET-1. 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).

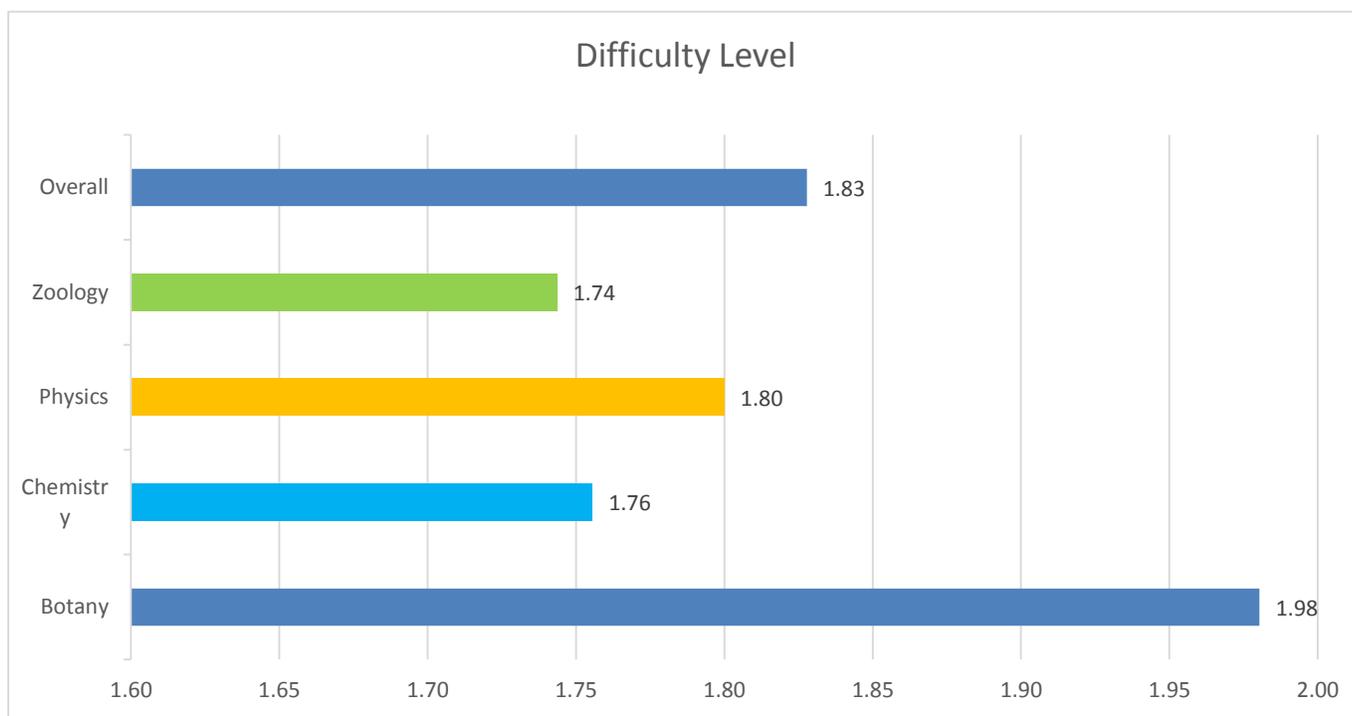
Subject	Class XI		Class XII		Total	
	No. of Ques.	Total Marks	No. of Ques.	Total Marks	No. of Ques.	Total Marks
Botany	26	104	25	100	51	204
Chemistry	19	76	26	104	45	180
Physics	22	88	23	92	45	180
Zoology	21	84	18	72	39	156
<b>Grand Total</b>	<b>88</b>	<b>352</b>	<b>92</b>	<b>368</b>	<b>180</b>	<b>720</b>

## 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	NEET-2	NEET-1	2015
Botany	1.98	1.80	1.84
Chemistry	1.76	2.02	1.6
Physics	1.80	1.96	1.87
Zoology	1.74	1.98	1.84
<b>Overall</b>	<b>1.83</b>	<b>1.93</b>	1.74



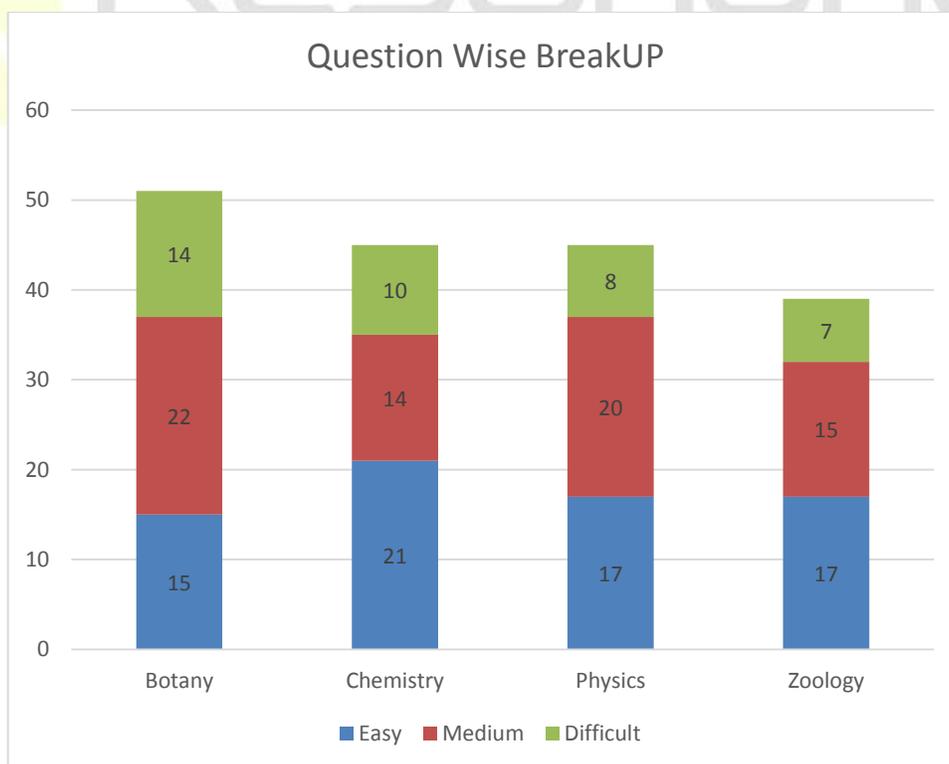
## Difficulty Level Analysis: No of Questions

Subject	Easy Level		Medium Level		Difficult Level	
	No. of Ques.	Total Marks	No. of Ques.	Total Marks	No. of Ques.	Total Marks
Botany	15	60	22	88	14	56
Chemistry	21	84	14	56	10	40
Physics	17	68	20	80	8	32
Zoology	17	68	15	60	7	28
<b>Grand Total</b>	<b>70</b>	<b>280</b>	<b>71</b>	<b>284</b>	<b>39</b>	<b>156</b>

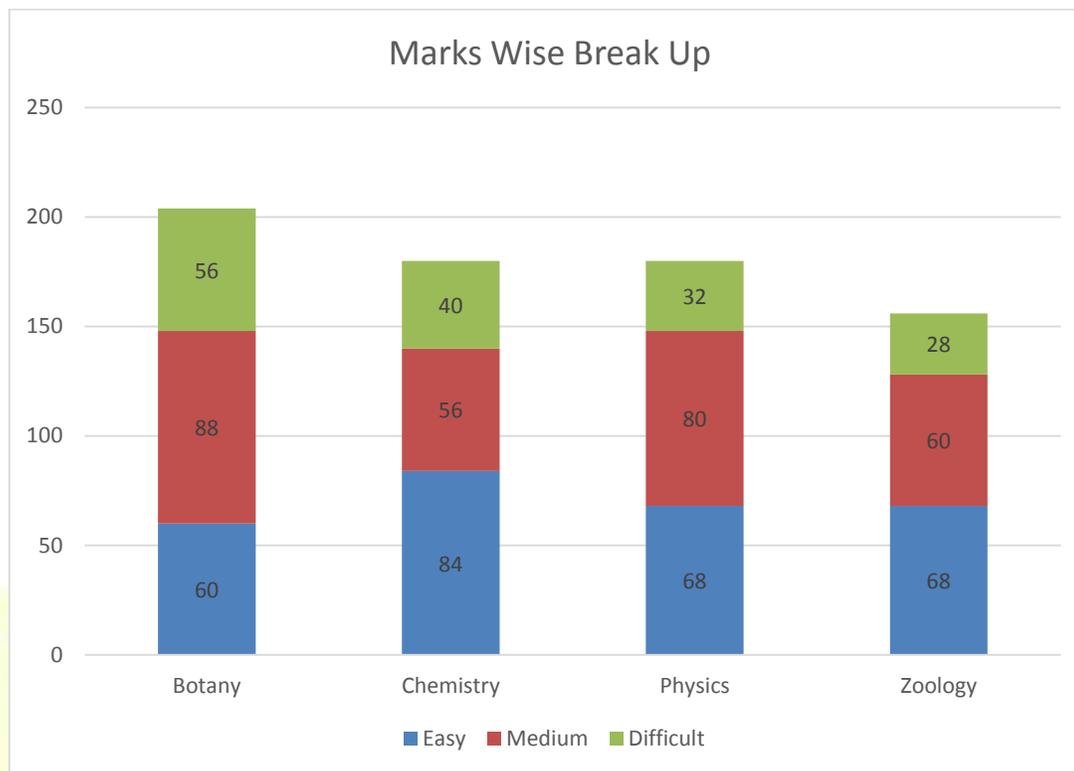
Resonance Experts feel that the paper was on easier side in comparison to NEET 1 and AIPMT 2015. Botany was on marginally tougher side compared to Zoology, Physics & Chemistry. While around 280 Marks can be considered easy overall, 284 marks are moderately difficulty and 156 marks are considered difficult by Resonance Team.

1 question in Physics of Equivalent Capacitance has no option correct and is most likely to be awarded as bonus but the final decision lies with CBSE.

## Question Wise Difficulty Breakup



**Marks Wise Difficulty Breakup**



**PHYSICS ANALYSIS**

Physics			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
<b>Physics</b>	<b>45</b>	<b>180</b>	<b>100.00%</b>
<b>Alternating Current</b>	<b>2</b>	<b>8</b>	<b>4.44%</b>
Lcr Circuit	1	4	2.22%
Power Factor	1	4	2.22%
<b>Capacitance</b>	<b>2</b>	<b>8</b>	<b>4.44%</b>
Dielectric	1	4	2.22%
Rc Circuit	1	4	2.22%
<b>Circular Motion</b>	<b>1</b>	<b>4</b>	<b>2.22%</b>
Horizontal Circular Motion	1	4	2.22%
<b>Current Electricity</b>	<b>2</b>	<b>8</b>	<b>4.44%</b>
Electric Power	1	4	2.22%
Ohm'S Law	1	4	2.22%
<b>Electrostatics</b>	<b>1</b>	<b>4</b>	<b>2.22%</b>
Electric Dipole	1	4	2.22%
<b>Geometrical Optics</b>	<b>3</b>	<b>12</b>	<b>6.67%</b>
Combination Of Lens	1	4	2.22%
Human Eye	1	4	2.22%
Refraction	1	4	2.22%
<b>Gravitation</b>	<b>2</b>	<b>8</b>	<b>4.44%</b>
Earth Gravitation	1	4	2.22%
Gravitation Potential	1	4	2.22%
<b>Heat Transfer</b>	<b>2</b>	<b>8</b>	<b>4.44%</b>
Heat Transfer	1	4	2.22%
Newton Law Of Cooling	1	4	2.22%
<b>Magnetic Effects of Current</b>	<b>2</b>	<b>8</b>	<b>4.44%</b>
Magnetic Field	1	4	2.22%
Magnetic Force	1	4	2.22%
<b>Magnetism</b>	<b>2</b>	<b>8</b>	<b>4.44%</b>
Electromagnetic Induction	1	4	2.22%
Torque	1	4	2.22%
<b>Mechanics</b>	<b>11</b>	<b>44</b>	<b>24.44%</b>
Centre Of Mass	1	4	2.22%

Newton Law Of Motion	1	4	2.22%
Rectilinear Motion	1	4	2.22%
Rigid Body Dynamics	3	12	6.67%
Simple Harmonic Motion	1	4	2.22%
Surface Tension	2	8	4.44%
Work, Power, Energy	2	8	4.44%
<b>Modern Physics</b>	<b>4</b>	<b>16</b>	<b>8.89%</b>
Bohr Model	1	4	2.22%
De Broglie'S Principle	1	4	2.22%
Photoelectric Effect	1	4	2.22%
Radioactivity	1	4	2.22%
<b>Semiconductor Devices</b>	<b>3</b>	<b>12</b>	<b>6.67%</b>
Diodes	2	8	4.44%
Transistors	1	4	2.22%
<b>Sound Waves</b>	<b>2</b>	<b>8</b>	<b>4.44%</b>
Beats	1	4	2.22%
Organ Pipe	1	4	2.22%
<b>Thermodynamics</b>	<b>3</b>	<b>12</b>	<b>6.67%</b>
Heat Capacity	1	4	2.22%
Ideal Gas	1	4	2.22%
Refrigeration	1	4	2.22%
<b>Units and Dimensions</b>	<b>1</b>	<b>4</b>	<b>2.22%</b>
Dimensions	1	4	2.22%
<b>Wave Optics</b>	<b>2</b>	<b>8</b>	<b>4.44%</b>
Diffraction	1	4	2.22%
Interference	1	4	2.22%
<b>Grand Total</b>	<b>45</b>	<b>180</b>	<b>100.00%</b>

**CHEMISTRY ANALYSIS**

CHEMISTRY			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
<b>Chemistry</b>	<b>45</b>	<b>180</b>	<b>100.00%</b>
<b>Inorganic Chemistry</b>	<b>17</b>	<b>68</b>	<b>37.78%</b>
Alcohol	1	4	2.22%
Chemical Bonding	9	36	20.00%
Coordination Compounds	2	8	4.44%
D Block	1	4	2.22%
F Block	1	4	2.22%
P Block	1	4	2.22%
S Block	1	4	2.22%
Solid State	1	4	2.22%
<b>Organic Chemistry</b>	<b>14</b>	<b>56</b>	<b>31.11%</b>
Aromatic Compounds	2	8	4.44%
Biomolecules	1	4	2.22%
Carbonyl Compounds	1	4	2.22%
General Organic Chemistry	4	16	8.89%
Haloalkanes	1	4	2.22%
Hydrocarbon	1	4	2.22%
Nitrogen Containing Compounds	2	8	4.44%
Polymer	1	4	2.22%
Stereoisomerism	1	4	2.22%
<b>Physical Chemistry</b>	<b>14</b>	<b>56</b>	<b>31.11%</b>
Atomic Structure	2	8	4.44%
Chemical Kinetics	1	4	2.22%
Colligative Properties	1	4	2.22%
Electrochemistry	3	12	6.67%
Ionic Equilibrium	2	8	4.44%
Mole Concept	1	4	2.22%
Solution And Colligative Properties	2	8	4.44%
Surface Chemistry	1	4	2.22%
Thermochemistry	1	4	2.22%
<b>Grand Total</b>	<b>45</b>	<b>180</b>	<b>100.00%</b>

**BIOLOGY ANALYSIS**
**Botany Analysis**

<b>Botany</b>			
<b>UNIT &amp; TOPIC NAME</b>	<b>NO OF QUESTIONS</b>	<b>TOTAL MARKS</b>	<b>(%) WEIGHTAGE</b>
<b>Botany</b>	<b>51</b>	<b>204</b>	<b>100.00%</b>
<b>Biological Classification</b>	<b>4</b>	<b>16</b>	<b>7.84%</b>
Fungi	1	4	1.96%
Monera	2	8	3.92%
Protista	1	4	1.96%
<b>Biological Classification and Morphology</b>	<b>1</b>	<b>4</b>	<b>1.96%</b>
Fungi and Flower	1	4	1.96%
<b>Cell</b>	<b>2</b>	<b>8</b>	<b>3.92%</b>
Cell Organelles	2	8	3.92%
<b>Cell Division</b>	<b>3</b>	<b>12</b>	<b>5.88%</b>
Meiosis	1	4	1.96%
Mitosis	2	8	3.92%
<b>Ecology</b>	<b>11</b>	<b>44</b>	<b>21.57%</b>
Bio amplification	1	4	1.96%
Biodiversity and Conservation	2	8	3.92%
BOD	2	8	3.92%
Ecological Relationship	2	8	3.92%
Ecosystem	1	4	1.96%
Ecosystem and Biodiversity	1	4	1.96%
National Park	1	4	1.96%
Population	1	4	1.96%
<b>Evolution</b>	<b>1</b>	<b>4</b>	<b>1.96%</b>
Genetic Drift	1	4	1.96%
<b>Genetics</b>	<b>7</b>	<b>28</b>	<b>13.73%</b>
Chromosomal Mutation	1	4	1.96%
Color Blindness	1	4	1.96%
Genetic Material	1	4	1.96%
Replication	1	4	1.96%
Transcription	1	4	1.96%
Translation	2	8	3.92%
<b>Living World</b>	<b>1</b>	<b>4</b>	<b>1.96%</b>

Herbarium	1	4	1.96%
<b>Morphology</b>	<b>4</b>	<b>16</b>	<b>7.84%</b>
Androecium	1	4	1.96%
Flower	3	12	5.88%
<b>Plant Anatomy</b>	<b>2</b>	<b>8</b>	<b>3.92%</b>
Plant Organs	1	4	1.96%
Xylem	1	4	1.96%
<b>Plant Diversity</b>	<b>2</b>	<b>8</b>	<b>3.92%</b>
Algae	1	4	1.96%
Gymnosperms	1	4	1.96%
<b>Plant Physiology</b>	<b>7</b>	<b>28</b>	<b>13.73%</b>
Growth	1	4	1.96%
Growth Hormone	1	4	1.96%
Mineral	1	4	1.96%
Photosynthesis	1	4	1.96%
Respiration	2	8	3.92%
Transport	1	4	1.96%
<b>Reproduction</b>	<b>2</b>	<b>8</b>	<b>3.92%</b>
Asexual Reproduction	1	4	1.96%
Sexual Reproduction in flowering plants	1	4	1.96%
<b>Reproduction in Flowering Plant</b>	<b>3</b>	<b>12</b>	<b>5.88%</b>
Female Gametophyte	1	4	1.96%
Mega sporangium	1	4	1.96%
Pollination	1	4	1.96%
<b>Strategies for Food Production</b>	<b>1</b>	<b>4</b>	<b>1.96%</b>
Plant Breeding	1	4	1.96%
<b>Grand Total</b>	<b>51</b>	<b>204</b>	<b>100.00%</b>

**ZOOLOGY:**

Zoology			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
<b>Zoology</b>	<b>39</b>	<b>156</b>	<b>100.00%</b>
<b>Animal Classification</b>	<b>2</b>	<b>8</b>	<b>5.13%</b>
Cockroach	1	4	2.56%
Vertebrata	1	4	2.56%
<b>Animal Physiology</b>	<b>12</b>	<b>48</b>	<b>30.77%</b>
Circulatory System	2	8	5.13%
Endocrine Glands	4	16	10.26%
Excretory System	1	4	2.56%
Respiratory System	2	8	5.13%
Sense Organs	1	4	2.56%
Skeleton System	2	8	5.13%
<b>Animal Tissue</b>	<b>1</b>	<b>4</b>	<b>2.56%</b>
Muscles	1	4	2.56%
<b>Biological Classification</b>	<b>1</b>	<b>4</b>	<b>2.56%</b>
Monera	1	4	2.56%
<b>Biomolecules</b>	<b>3</b>	<b>12</b>	<b>7.69%</b>
Enzymes	2	8	5.13%
Protein	1	4	2.56%
<b>Biotechnology</b>	<b>5</b>	<b>20</b>	<b>12.82%</b>
Application of Biotechnology	1	4	2.56%
Bioreactor	1	4	2.56%
Downstream Processing	1	4	2.56%
Restriction Endonuclease	2	8	5.13%
<b>Evolution</b>	<b>3</b>	<b>12</b>	<b>7.69%</b>
Hardy Weinberg Equilibrium	1	4	2.56%
Human Evolution	1	4	2.56%
Origin of Life	1	4	2.56%
<b>Human Reproduction</b>	<b>3</b>	<b>12</b>	<b>7.69%</b>
Hormones	1	4	2.56%
Sex Organs	2	8	5.13%

<b>Immune System</b>	<b>1</b>	<b>4</b>	<b>2.56%</b>
HIV	1	4	2.56%
<b>Living World</b>	<b>2</b>	<b>8</b>	<b>5.13%</b>
Taxonomy	1	4	2.56%
Taxonomy & Properties of Life	1	4	2.56%
<b>Microbes in Human Welfare</b>	<b>1</b>	<b>4</b>	<b>2.56%</b>
Mircobial Products	1	4	2.56%
<b>Reproductive Health</b>	<b>3</b>	<b>12</b>	<b>7.69%</b>
Contraceptives Method	2	8	5.13%
IVF	1	4	2.56%
<b>Strategies for Food Production</b>	<b>2</b>	<b>8</b>	<b>5.13%</b>
Animal Food	1	4	2.56%
Hybridisation	1	4	2.56%
<b>Grand Total</b>	<b>39</b>	<b>156</b>	<b>100.00%</b>

### CUTOFF:

As per CBSE, in order to be eligible for admission to MBBS/BDS Courses, it shall be necessary for a candidate to obtain minimum of marks at 50th percentile in National Eligibility Cum Entrance Test to MBBS/BDS Courses held for the said academic year. However, in respect of candidates belonging to Scheduled Castes, Scheduled Tribes, Other Backward Classes, the minimum marks shall be at 40th percentile. The percentile shall be determined on the basis of highest marks secured in the All India common merit list in National Eligibility Cum Entrance Test for admission to MBBS/BDS courses.

### COMBINED RESULT FOR NEET-1 AND NEET-2

There has been no specific guidelines issued by CBSE on how the combined merit list will be prepared for candidates of NEET-1 & 2. In 2013, the merit list was prepared using percentile of the candidates.

This year, since the exam is conducted twice, there are some following concerns which should be addressed while preparing the merit list:

- 1) As the students appeared in NEET-2 are less than NEET-1, will the percentile score list prepared will be separate for both papers or combined list will be prepared?
- 2) It is more likely that students who have obtained good marks in NEET-1 will not give the exam again, so if separate lists are prepared then, students scoring less in comparison to students in NEET 1 will get good percentile score.

3) If combined list is prepared, then it will contain students of 2 different papers with different difficulty level and also students of NEET-2 had 2 more months to prepare.

So, it will be interesting to see how CBSE will prepare the merit list for NEET (1&2) tentatively to be declared on 17<sup>th</sup> August.

