A Detailed Question Paper Analysis of NEET-UG 2022 (Code - S5)  
July 17, 2022 (2:00 pm - 5:20 pm)

- NEET-UG – 2022 was conducted on 17th July 2022 in offline pen & paper-based Examination
- The NEET-UG has 4 subjects - Physics, Chemistry, Botany & Zoology
- As per the new exam pattern, there were 2 sections in each subject consisting of 35 questions in Section A (all the questions were compulsory) and 15 questions in Section B (out of which 5 were optional).
- There were 200 Multiple Choice Questions, 50 per subject. Each correct answer will be awarded 4 marks and for each incorrect answer 1 mark will be deducted. Zero marks will be awarded for each unattempted question.
- The total duration of the NEET 2022 Exam was 3 hours 20 minutes (200 minutes)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Section</th>
<th>Number of Questions</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>Section A</td>
<td>35</td>
<td>140</td>
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<tr>
<td></td>
<td>Section B</td>
<td>15</td>
<td>40</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Section A</td>
<td>35</td>
<td>140</td>
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<td>Section B</td>
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<tr>
<td></td>
<td>Botany</td>
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<td>Zoology</td>
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<td>Section A</td>
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<td>140</td>
</tr>
<tr>
<td></td>
<td>Section B</td>
<td>15</td>
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</tbody>
</table>

|       | Total Subjects = 4 | Total Section = 8 | Total Questions = 200 | Total Marks = 720 |

- Section A consists of 35 questions in each subject (Question Numbers – 001 to 035, 051 to 085, 101 to 135, and 151 to 185). All questions are compulsory.
- Section B consists of 15 questions in each subject (Question Nos – 036 to 050, 086 to 100, 136 to 150, and 186 to 200). In Section B, a candidate needs to attempt any 10 questions out of 15 in each subject.

Note - In the analysis Sections A & B are marked in different colors as known below:

<table>
<thead>
<tr>
<th>Section A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section B</td>
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</tbody>
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## Subject Wise Analysis

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Easy</th>
<th>Medium</th>
<th>Difficult</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No of Questions</td>
<td>Total Marks</td>
<td>No of Questions</td>
<td>Total Marks</td>
</tr>
<tr>
<td>Physics</td>
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<td>21</td>
<td>84</td>
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<td>24</td>
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<td>Botany</td>
<td>26</td>
<td>104</td>
<td>19</td>
<td>76</td>
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<td>Zoology</td>
<td>25</td>
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<td>Grand Total</td>
<td>89</td>
<td>356</td>
<td>85</td>
<td>340</td>
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### Subject Wise Difficulty Level

- **Physics**: questions were of easy to moderate level & few were difficult.
- **Chemistry**: questions were a mix of easy, moderate and difficult levels.
- **Botany**: questions were of easy to moderate level & few were difficult.
- **Zoology**: questions were of easy to moderate level & few were difficult.
Physics was of easy to moderate level. Physics had 23 easy, 21 medium and 6 difficult questions. Following is the question distribution table as per Class, Chapter, Topic & Difficulty -

<table>
<thead>
<tr>
<th>Question No.</th>
<th>Class</th>
<th>Chapter Name</th>
<th>Topic Name</th>
<th>Difficulty Level</th>
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<tbody>
<tr>
<td>1</td>
<td>11th</td>
<td>Units and Measurements</td>
<td>Dimensions of Physical Quantities</td>
<td>Medium</td>
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<td>2</td>
<td>11th</td>
<td>Thermodynamics</td>
<td>Thermodynamic Processes</td>
<td>Medium</td>
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<td>3</td>
<td>12th</td>
<td>Ray Optics and Optical Instruments</td>
<td>Refraction by Lenses</td>
<td>Easy</td>
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<tr>
<td>4</td>
<td>11th</td>
<td>System of Particles and Rotational Motion</td>
<td>Moment of Inertia</td>
<td>Easy</td>
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<tr>
<td>5</td>
<td>12th</td>
<td>Electrostatic Potential and Capacitance</td>
<td>Equipotential Surfaces</td>
<td>Easy</td>
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<tr>
<td>6</td>
<td>11th</td>
<td>System of Particles and Rotational Motion</td>
<td>Centre of Mass</td>
<td>Easy</td>
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<td>7</td>
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<td>Motion in a Straight Line</td>
<td>Kinematic Equations for Uniformly Accelerated Motion</td>
<td>Easy</td>
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<td>8</td>
<td>11th</td>
<td>Mechanical Properties of Fluids</td>
<td>Viscosity</td>
<td>Easy</td>
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<tr>
<td>9</td>
<td>11th</td>
<td>System of Particles and Rotational Motion</td>
<td>Angular Velocity &amp; angular acceleration and its Relation with Linear Velocity</td>
<td>Easy</td>
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<tr>
<td>10</td>
<td>11th</td>
<td>Wave Optics</td>
<td>Interference of light wave and youngs double slit experiment</td>
<td>Medium</td>
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<tr>
<td>11</td>
<td>12th</td>
<td>Electromagnetic Waves</td>
<td>Electromagnetic Spectrum</td>
<td>Medium</td>
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<tr>
<td>12</td>
<td>12th</td>
<td>Dual Nature of Radiation and Matter</td>
<td>Wave Nature of matter</td>
<td>Easy</td>
</tr>
<tr>
<td>13</td>
<td>12th</td>
<td>Electromagnetic Waves</td>
<td>Relation Between Electric Field, Magnetic Field and Speed of Light</td>
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<tr>
<td>14</td>
<td>11th</td>
<td>Mechanical Properties of Fluids</td>
<td>Surface Tension</td>
<td>Easy</td>
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<tr>
<td>15</td>
<td>11th</td>
<td>Gravitation</td>
<td>Acceleration Due To Gravity Of The Earth</td>
<td>Medium</td>
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<td>Page</td>
<td>Class</td>
<td>Topic</td>
<td>Description</td>
<td>Difficulty</td>
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<td>----------------------------------------------------------------------------</td>
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<tr>
<td>16</td>
<td>12th</td>
<td>Nuclei</td>
<td>Radioactivity</td>
<td>Easy</td>
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<td>17</td>
<td>12th</td>
<td>Atoms</td>
<td>Bohr Model of the Hydrogen atom</td>
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<td>18</td>
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<td>Dual Nature of Radiation and Matter</td>
<td>Einstein's Photoelectric Equation: Energy Quantum Of Radiation</td>
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<td>12th</td>
<td>Wave Optics</td>
<td>Polarisation</td>
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<td>Laws of Motion</td>
<td>Conservation of Momentum</td>
<td>Medium</td>
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<td>Electrostatic Potential and Capacitance</td>
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<td>Current Electricity</td>
<td>Temperature Dependence of Resistivity</td>
<td>Easy</td>
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<td>Motion in a Straight Line</td>
<td>Instantaneous Velocity and Speed</td>
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<td>24</td>
<td>12th</td>
<td>Electromagnetic induction</td>
<td>Magnetic Flux</td>
<td>Medium</td>
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<tr>
<td>25</td>
<td>12th</td>
<td>Semiconductor Electronics : Materials, Devices and Simple Circuits</td>
<td>Semiconductor diode</td>
<td>Difficult</td>
</tr>
<tr>
<td>26</td>
<td>12th</td>
<td>Current Electricity</td>
<td>Drift of Electrons and the Origin of Resistivity</td>
<td>Medium</td>
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<tr>
<td>27</td>
<td>11th</td>
<td>Work Energy and Power</td>
<td>Power</td>
<td>Medium</td>
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<td>28</td>
<td>12th</td>
<td>Moving Charges and Magnetism</td>
<td>Magnetic Field Due to a Current Element : BIOT-savart law</td>
<td>Difficult</td>
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<tr>
<td>29</td>
<td>12th</td>
<td>Current Electricity</td>
<td>Electrical Energy, Power</td>
<td>Easy</td>
</tr>
<tr>
<td>30</td>
<td>12th</td>
<td>Current Electricity</td>
<td>Electrical Energy, Power</td>
<td>Easy</td>
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<td>31</td>
<td>12th</td>
<td>Moving Charges and Magnetism</td>
<td>The Solenoid and the Toroid</td>
<td>Easy</td>
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<td>32</td>
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<td>Units and Measurements</td>
<td>The International System of Units</td>
<td>Easy</td>
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<tr>
<td>33</td>
<td>12th</td>
<td>Semiconductor Electronics : Materials, Devices and Simple Circuits</td>
<td>Application of junction diode as a rectifier</td>
<td>Easy</td>
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<td>34</td>
<td>12th</td>
<td>Alternating Current</td>
<td>Representation of AC Current and Voltage by Rotating Vectors Phasors</td>
<td>Easy</td>
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<td>35</td>
<td>11th</td>
<td>Waves</td>
<td>Transverse and Longitudinal Waves</td>
<td>Easy</td>
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<td>36</td>
<td>11th</td>
<td>Oscillations</td>
<td>Some Systems Executing Simple Harmonic Motion</td>
<td>Difficult</td>
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<td>37</td>
<td>11th</td>
<td>Motion in a Plane</td>
<td>Projectile Motion</td>
<td>Easy</td>
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<td>38</td>
<td>12th</td>
<td>Current Electricity</td>
<td>Wheatstone Bridge</td>
<td>Medium</td>
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<td>39</td>
<td>12th</td>
<td>Electric Charges and Fields</td>
<td>Electric Dipole</td>
<td>Easy</td>
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<td>40</td>
<td>11th</td>
<td>Mechanical Properties of Solids</td>
<td>Elastic Moduli</td>
<td>Difficult</td>
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<tr>
<td>41</td>
<td>12th</td>
<td>Nuclei</td>
<td>Size of the Nucleus</td>
<td>Medium</td>
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<td>42</td>
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<td>Units and Measurements</td>
<td>Dimensions of Physical Quantities</td>
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<td>43</td>
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<td>Units and Measurements</td>
<td>Significant figures</td>
<td>Easy</td>
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<td>44</td>
<td>12th</td>
<td>Electromagnetic induction</td>
<td>Faradays Law of Induction</td>
<td>Medium</td>
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<td>45</td>
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<td>Ray Optics and Optical Instruments</td>
<td>Total Internal Reflection</td>
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<td>46</td>
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<td>AC Voltage Applied to a Series LCR Circuit</td>
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<td>47</td>
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<td>Electrostatic Potential and Capacitance</td>
<td>Energy Stored in a Capacitor</td>
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<td>48</td>
<td>12th</td>
<td>Moving Charges and Magnetism</td>
<td>Amperes Circuital Law</td>
<td>Medium</td>
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<tr>
<td>49</td>
<td>12th</td>
<td>Semiconductor Electronics : Materials, Devices and Simple Circuits</td>
<td>Digital Electronics and Logic Gates</td>
<td>Difficult</td>
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<tr>
<td>50</td>
<td>11th</td>
<td>Kinetic Theory</td>
<td>Kinetic Theory of An Ideal Gas</td>
<td>Difficult</td>
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</table>
Chemistry had a moderate to difficult level of questions. Chemistry had 24 medium and 15 easy & 11 difficult questions. Following is the question distribution table as per Class, Chapter, Topic & Difficulty -

<table>
<thead>
<tr>
<th>Question No.</th>
<th>Class</th>
<th>Chapter Name</th>
<th>Topic Name</th>
<th>Difficulty Level</th>
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<tr>
<td>51</td>
<td>11th</td>
<td>The p-Block Elements</td>
<td>Some Important Compounds of Boron</td>
<td>Medium</td>
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<tr>
<td>52</td>
<td>12th</td>
<td>The p-Block Elements</td>
<td>Group 17 Elements</td>
<td>Difficult</td>
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<tr>
<td>53</td>
<td>11th</td>
<td>Some basic concepts of chemistry</td>
<td>Reactions in Solutions</td>
<td>Easy</td>
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<tr>
<td>54</td>
<td>12th</td>
<td>Electrochemistry</td>
<td>Electrochemical Cell</td>
<td>Difficult</td>
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<tr>
<td>55</td>
<td>11th</td>
<td>Structure of Atom</td>
<td>Quantum Mechanical Model of the Atom</td>
<td>Difficult</td>
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<tr>
<td>56</td>
<td>11th</td>
<td>Some basic concepts of chemistry</td>
<td>Stoichiometry and Stoichiometric Calculations</td>
<td>Medium</td>
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<td>57</td>
<td>12th</td>
<td>Aldehydes, Ketones and Carboxylic Acids</td>
<td>Methods of Preparation for Carboxylic Acids</td>
<td>Medium</td>
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<tr>
<td>58</td>
<td>11th</td>
<td>The s-Block Elements</td>
<td>Group-1 Elements : Alkali Metals</td>
<td>Difficult</td>
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<tr>
<td>59</td>
<td>12th</td>
<td>Chemistry in Everyday Life</td>
<td>Drugs and their Classification</td>
<td>Medium</td>
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<td>60</td>
<td>11th</td>
<td>States of Matter</td>
<td>Daltons Law of Partial Pressures</td>
<td>Difficult</td>
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<td>61</td>
<td>12th</td>
<td>Polymers</td>
<td>Classification of Polymers</td>
<td>Easy</td>
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<td>62</td>
<td>12th</td>
<td>Aldehydes, Ketones and Carboxylic Acids</td>
<td>Physical Properties of Aldehydes and Ketones</td>
<td>Medium</td>
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<tr>
<td>63</td>
<td>11th</td>
<td>Classification of Elements and Periodicity in Properties</td>
<td>Nomenclature of Elements With Atomic Number &gt; 100</td>
<td>Easy</td>
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<tr>
<td>64</td>
<td>12th</td>
<td>Electrochemistry</td>
<td>Electrochemical Cell</td>
<td>Difficult</td>
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<tr>
<td>65</td>
<td>11th</td>
<td>Organic Chemistry : Some Basic Principles and Techniques</td>
<td>Qualitative analysis of organic compounds</td>
<td>Easy</td>
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<td>66</td>
<td>12th</td>
<td>Chemical Kinetics</td>
<td>Order of Reaction</td>
<td>Medium</td>
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<td>67</td>
<td>11th</td>
<td>The s-Block Elements</td>
<td>Group-1 Elements : Alkali Metals</td>
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<td>12th</td>
<td>The Solid State</td>
<td>Imperfections or Defects in Solids</td>
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<td>69</td>
<td>12th</td>
<td>Coordination Compounds</td>
<td>Nomenclature of Coordination Compounds</td>
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<td>70</td>
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<td>The p-Block Elements</td>
<td>Allotropes of carbon</td>
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<td>71</td>
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<td>Surface Chemistry</td>
<td>Colloids</td>
<td>Easy</td>
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<td>12th</td>
<td>Amines</td>
<td>Diazonium Salts</td>
<td>Medium</td>
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<td>73</td>
<td>12th</td>
<td>The d and f-Block Elements</td>
<td>The Lanthanoids</td>
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<td>74</td>
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<td>Hydrogen</td>
<td>Hydrides</td>
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<td>75</td>
<td>12th</td>
<td>Aldehydes, Ketones and Carboxylic Acids</td>
<td>Chemical Reactions of Aldehydes and Ketones</td>
<td>Medium</td>
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<tr>
<td>76</td>
<td>12th</td>
<td>The p-Block Elements</td>
<td>Simple Oxides</td>
<td>Medium</td>
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<td>77</td>
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<td>Equilibrium</td>
<td>Buffer Solution</td>
<td>Medium</td>
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<td>78</td>
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<td>Chemical Bonding and Molecular Structure</td>
<td>The Valence Shell Electron Pair Repulsion (VSEPR) Theory</td>
<td>Medium</td>
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<td>79</td>
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<td>Haloalkanes and Haloarenes</td>
<td>Stereochemical Aspects of Nucleophilic Substitution Reactions</td>
<td>Easy</td>
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<tr>
<td>80</td>
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<td>Molecular Orbital Theory (MOT)</td>
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<td>Hydrocarbons</td>
<td>Aromatic Hydrocarbon</td>
<td>Medium</td>
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<td>Aromatic Hydrocarbon</td>
<td>Medium</td>
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<tr>
<td>83</td>
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<td>12th</td>
<td>Alcohols, Phenols and Ethers</td>
<td>Chemical Properties</td>
<td>Medium</td>
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<td>11th</td>
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<td>Alkenes</td>
<td>Medium</td>
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<td>Homogeneous Equilibria</td>
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<td>11th</td>
<td>States of Matter</td>
<td>Ideal Gas Equation</td>
<td>Easy</td>
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<td>12th</td>
<td>General Principles and Processes of Isolation of Elements</td>
<td>Occurrence of Metals</td>
<td>Medium</td>
</tr>
<tr>
<td>90</td>
<td>12th</td>
<td>Amines</td>
<td>Diazonium Salts</td>
<td>Medium</td>
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<td>92</td>
<td>12th</td>
<td>Coordination Compounds</td>
<td>Bonding in Coordination Compounds</td>
<td>Medium</td>
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<td>93</td>
<td>12th</td>
<td>Chemical Kinetics</td>
<td>Integrated Rate Equations</td>
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<td>94</td>
<td>12th</td>
<td>The Solid State</td>
<td>Calculation of Density</td>
<td>Medium</td>
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<td>95</td>
<td>11th</td>
<td>Structure of Atom</td>
<td>Bohr’s Model for Hydrogen Atom</td>
<td>Easy</td>
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<tr>
<td>Page</td>
<td>Grade</td>
<td>Topic</td>
<td>Subtopic</td>
<td>Difficulty</td>
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<tr>
<td>96</td>
<td>12th</td>
<td>Aldehydes, Ketones and Carboxylic Acids</td>
<td>Chemical Reactions of Aldehydes and Ketones</td>
<td>Difficult</td>
</tr>
<tr>
<td>97</td>
<td>12th</td>
<td>Electrochemistry</td>
<td>Dependence of emf on Concentration and Temperature</td>
<td>Medium</td>
</tr>
<tr>
<td>98</td>
<td>12th</td>
<td>Alcohols, Phenols and Ethers</td>
<td>Chemical Properties</td>
<td>Easy</td>
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<td>99</td>
<td>11th</td>
<td>Redox Reactions</td>
<td>Oxidation Number</td>
<td>Easy</td>
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<td>100</td>
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<td>Environmental Chemistry</td>
<td>Atmospheric Pollution</td>
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Botany (For Test Booklet Code S5)

Botany had moderate to difficult level of questions. It had 19 medium, 26 easy & 5 difficult questions. Following is the question distribution table as per Class, Chapter, Topic & Difficulty -

<table>
<thead>
<tr>
<th>Question No.</th>
<th>Class</th>
<th>Chapter Name</th>
<th>Topic Name</th>
<th>Difficulty Level</th>
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<tbody>
<tr>
<td>101</td>
<td>12th</td>
<td>Biotechnology - Principles and Processes</td>
<td>Processes of Recombinant DNA Technologies</td>
<td>Medium</td>
</tr>
<tr>
<td>102</td>
<td>12th</td>
<td>Principles of Inheritance and Variation</td>
<td>Mendels Laws of Inheritance</td>
<td>Medium</td>
</tr>
<tr>
<td>103</td>
<td>11th</td>
<td>Plant Kingdom</td>
<td>Algae</td>
<td>Medium</td>
</tr>
<tr>
<td>104</td>
<td>12th</td>
<td>Principles of Inheritance and Variation</td>
<td>Sex Determination</td>
<td>Easy</td>
</tr>
<tr>
<td>105</td>
<td>11th</td>
<td>Cell Cycle and Cell Division</td>
<td>Meiosis</td>
<td>Easy</td>
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<tr>
<td>106</td>
<td>12th</td>
<td>Biodiversity and Conservation</td>
<td>Biodiversity Conservation</td>
<td>Easy</td>
</tr>
<tr>
<td>107</td>
<td>12th</td>
<td>Sexual Reproduction in Flowering Plants</td>
<td>Pre-Fertilization - Structures and Events</td>
<td>Medium</td>
</tr>
<tr>
<td>108</td>
<td>11th</td>
<td>Photosynthesis in Higher Plants</td>
<td>The C4 Pathway (Hatch and Slack pathway)</td>
<td>Medium</td>
</tr>
<tr>
<td>109</td>
<td>11th</td>
<td>Anatomy of Flowering Plants</td>
<td>Secondary Growth</td>
<td>Difficult</td>
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<tr>
<td>110</td>
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<td>Mineral Nutrition</td>
<td>Metabolism of Nitrogen</td>
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<td>111</td>
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<td>Ecosystem</td>
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<td>112</td>
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<td>113</td>
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<td>Algae</td>
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<tr>
<td>114</td>
<td>11th</td>
<td>Transport in Plants</td>
<td>Phloem Transport : Flow from source to sink</td>
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<td>Page</td>
<td>Course</td>
<td>Topic</td>
<td>Subtopic</td>
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<tr>
<td>115</td>
<td>11th</td>
<td>Morphology of Flowering Plants</td>
<td>The Flower</td>
<td>Easy</td>
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<tr>
<td>116</td>
<td>11th</td>
<td>Photosynthesis in Higher Plants</td>
<td>The Electron Transport</td>
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<td>117</td>
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<td>Environmental Issues</td>
<td>Air pollution And Its Control</td>
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<td>118</td>
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<td>119</td>
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<td>120</td>
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<td>Molecular Basis of Inheritance</td>
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<td>Long Distance Transport of water</td>
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<td>The Flower</td>
<td>Easy</td>
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<tr>
<td>127</td>
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<td>Molecular Basis of Inheritance</td>
<td>DNA Fingerprinting</td>
<td>Medium</td>
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<td>128</td>
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<td>Fermentation</td>
<td>Easy</td>
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<td>129</td>
<td>11th</td>
<td>Morphology of Flowering Plants</td>
<td>The Leaf</td>
<td>Difficult</td>
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<tr>
<td>130</td>
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<td>Organisms and Populations</td>
<td>Populations</td>
<td>Easy</td>
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<tr>
<td>131</td>
<td>12th</td>
<td>Sexual Reproduction in Flowering Plants</td>
<td>Pre-Fertilization - Structures and Events</td>
<td>Medium</td>
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<tr>
<td>132</td>
<td>11th</td>
<td>Plant Growth and Development</td>
<td>Plant Growth Regulators</td>
<td>Easy</td>
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<tr>
<td>133</td>
<td>11th</td>
<td>Mineral Nutrition</td>
<td>Essential Mineral</td>
<td>Medium</td>
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<td>134</td>
<td>11th</td>
<td>Cell Cycle and Cell Division</td>
<td>Mitosis</td>
<td>Easy</td>
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<tr>
<td>135</td>
<td>11th</td>
<td>Plant Growth and Development</td>
<td>Plant Growth Regulators</td>
<td>Medium</td>
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<td>136</td>
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<td>Plant Kingdom</td>
<td>Plant life cycles and alternation of generations</td>
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<tr>
<td>137</td>
<td>12th</td>
<td>Sexual Reproduction in Flowering Plants</td>
<td>Post-Fertilization : Structures and Events</td>
<td>Easy</td>
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<tr>
<td>138</td>
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<td>Ecosystem</td>
<td>Nutrient cycle</td>
<td>Easy</td>
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<tr>
<td>139</td>
<td>11th</td>
<td>Cell : The unit of Life</td>
<td>Eukaryotic cells</td>
<td>Easy</td>
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<td>140</td>
<td>11th</td>
<td>Anatomy of Flowering Plants</td>
<td>Secondary Growth</td>
<td>Medium</td>
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<td>141</td>
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<td>Principles of Inheritance and Variation</td>
<td>Mendels Laws of Inheritance</td>
<td>Medium</td>
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<td>142</td>
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<td>Lipids</td>
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<tr>
<td>143</td>
<td>11th</td>
<td>Photosynthesis in Higher Plants</td>
<td>The C4 Pathway (Hatch and Slack pathway)</td>
<td>Easy</td>
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<td>144</td>
<td>12th</td>
<td>Molecular Basis of Inheritance</td>
<td>The DNA</td>
<td>Easy</td>
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<td>145</td>
<td>12th</td>
<td>Environmental Issues</td>
<td>Air pollution And Its Control</td>
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<td>146</td>
<td>11th</td>
<td>Transport in Plants</td>
<td>Plant-water Relations</td>
<td>Easy</td>
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<tr>
<td>147</td>
<td>12th</td>
<td>Biotechnology and its applications</td>
<td>Biotechnological Applications in Agriculture</td>
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<tr>
<td>148</td>
<td>12th</td>
<td>Organisms and Populations</td>
<td>Populations</td>
<td>Medium</td>
</tr>
<tr>
<td>149</td>
<td>12th</td>
<td>Molecular Basis of Inheritance</td>
<td>Genetic Code</td>
<td>Easy</td>
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<tr>
<td>150</td>
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<td>Molecular Basis of Inheritance</td>
<td>Genetic Code</td>
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Zoology (For Test Booklet Code S5)

Zoology had moderate to difficult level of questions. It had 22 medium and 24 easy & 4 difficult questions. Following is the question distribution table as per Class, Chapter, Topic & Difficulty:

<table>
<thead>
<tr>
<th>Question No.</th>
<th>Class</th>
<th>Chapter Name</th>
<th>Topic Name</th>
<th>Difficulty Level</th>
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<tr>
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<td>Evolution</td>
<td>Hardy-Weinberg Principle</td>
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<tr>
<td>152</td>
<td>11th</td>
<td>Biological Classification</td>
<td>Kingdom : Monera</td>
<td>Medium</td>
</tr>
<tr>
<td>153</td>
<td>11th</td>
<td>Biomolecules</td>
<td>Carbohydrates</td>
<td>Medium</td>
</tr>
<tr>
<td>154</td>
<td>11th</td>
<td>Cell : The unit of Life</td>
<td>Eukaryotic cells</td>
<td>Easy</td>
</tr>
<tr>
<td>155</td>
<td>11th</td>
<td>Structural Organisation in Animals (Contd....) (Animal Morphology)</td>
<td>COCKROACH</td>
<td>Easy</td>
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<tr>
<td>156</td>
<td>12th</td>
<td>Molecular Basis of Inheritance</td>
<td>The DNA</td>
<td>Easy</td>
</tr>
<tr>
<td>157</td>
<td>12th</td>
<td>Reproduction in Organisms</td>
<td>Asexual Reproduction</td>
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</tr>
<tr>
<td>158</td>
<td>11th</td>
<td>Animal Kingdom (Chordates)</td>
<td>Phylum Chordata</td>
<td>Difficult</td>
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<tr>
<td>159</td>
<td>12th</td>
<td>Strategies for Enhancement in Food Production</td>
<td>Plant Breeding</td>
<td>Easy</td>
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<tr>
<td>160</td>
<td>11th</td>
<td>Breathing and Exchange of Gases</td>
<td>Transport of gases</td>
<td>Easy</td>
</tr>
<tr>
<td>161</td>
<td>11th</td>
<td>Animal Kingdom (Chordates)</td>
<td>craniata</td>
<td>Medium</td>
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<td>162</td>
<td>11th</td>
<td>Digestion and Absorption</td>
<td>Digestion of food</td>
<td>Medium</td>
</tr>
<tr>
<td>163</td>
<td>11th</td>
<td>Excretory Products and their Elimination</td>
<td>Introduction</td>
<td>Medium</td>
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<tr>
<td>164</td>
<td>12th</td>
<td>Molecular Basis of Inheritance</td>
<td>Regulation of Gene Expression</td>
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<tr>
<td>165</td>
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<td>Structural Organisation in Animals (Animal Tissues)</td>
<td>Connective Tissue</td>
<td>Easy</td>
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<tr>
<td>166</td>
<td>11th</td>
<td>Digestion and Absorption</td>
<td>Absorption of digested products</td>
<td>Difficult</td>
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<tr>
<td>167</td>
<td>11th</td>
<td>Cell Cycle and Cell Division</td>
<td>Mitosis</td>
<td>Easy</td>
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<td>Class</td>
<td>Subject</td>
<td>Topic</td>
<td>Difficulty</td>
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<td>168</td>
<td>12th</td>
<td>Human Reproduction</td>
<td>Gametogenesis</td>
<td>Medium</td>
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<td>169</td>
<td>11th</td>
<td>Body Fluids and Circulation</td>
<td>Blood</td>
<td>Medium</td>
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<td>170</td>
<td>12th</td>
<td>Microbes in Human Welfare</td>
<td>Microbes in Industrial Products</td>
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<td>171</td>
<td>12th</td>
<td>Human Reproduction</td>
<td>Gametogenesis</td>
<td>Difficult</td>
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<td>172</td>
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<td>Biodiversity and Conservation</td>
<td>Biodiversity Conservation</td>
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<td>173</td>
<td>12th</td>
<td>Reproductive Health</td>
<td>Methods of Birth Control</td>
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<tr>
<td>174</td>
<td>11th</td>
<td>Locomotion and Movement</td>
<td>Disorder of Muscular and Skeletal System</td>
<td>Medium</td>
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<tr>
<td>175</td>
<td>11th</td>
<td>Breathing and Exchange of Gases</td>
<td>Respiratory Organs</td>
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<tr>
<td>176</td>
<td>11th</td>
<td>Cell Cycle and Cell Division</td>
<td>Meiosis</td>
<td>Medium</td>
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<td>177</td>
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<td>Ecosystem</td>
<td>Ecosystem - Function</td>
<td>Easy</td>
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<tr>
<td>178</td>
<td>11th</td>
<td>Structural Organisation in Animals (Animal Tissues)</td>
<td>Connective Tissue</td>
<td>Easy</td>
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<tr>
<td>179</td>
<td>11th</td>
<td>The Living World</td>
<td>Tools of Recombinant DNA Technology</td>
<td>Easy</td>
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<tr>
<td>180</td>
<td>12th</td>
<td>Biotechnology - Principles and Processes</td>
<td>Biotechnological Applications in Medicine</td>
<td>Medium</td>
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<tr>
<td>181</td>
<td>12th</td>
<td>Biotechnology and its applications</td>
<td>Biotechnological Applications in Medicine</td>
<td>Medium</td>
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<tr>
<td>182</td>
<td>11th</td>
<td>Locomotion and Movement</td>
<td>Disorder of Muscular and Skeletal System</td>
<td>Medium</td>
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<td>183</td>
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<td>Human Reproduction</td>
<td>Gametogenesis</td>
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<td>Organisms and Populations</td>
<td>Organism and its environment</td>
<td>Easy</td>
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<td>185</td>
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<td>Human Health and Disease</td>
<td>Immunity</td>
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<td>186</td>
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<td>187</td>
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<td>Biomolecules</td>
<td>Introduction</td>
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<td>188</td>
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<td>Chemical Coordination and Integration</td>
<td>Human Endocrine System</td>
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<td>12th</td>
<td>Biotechnology - Principles and Processes</td>
<td>Tools of Recombinant DNA Technology</td>
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<td>190</td>
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<td>Reproductive Health</td>
<td>Methods of Birth Control</td>
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<td>191</td>
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<td>Principles of Inheritance and Variation</td>
<td>Genetic Disorders</td>
<td>Medium</td>
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<tr>
<td>192</td>
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<td>What are the Evidences for Evolution?</td>
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<td>193</td>
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<td>194</td>
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<td>Human Health and Disease</td>
<td>Immunity</td>
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<td>Structural Organisation in Animals (Animal Tissues)</td>
<td>Epithelial Tissue</td>
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<td>196</td>
<td>12th</td>
<td>Biotechnology and its applications</td>
<td>Biotechnological Applications in Medicine</td>
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<td>197</td>
<td>12th</td>
<td>Environmental Issues</td>
<td>Air pollution And Its Control</td>
<td>Medium</td>
</tr>
<tr>
<td>198</td>
<td>12th</td>
<td>Molecular Basis of Inheritance</td>
<td>Replication</td>
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<td>199</td>
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<td>Neural Control and Coordination</td>
<td>Neuron as Structural and Functional Unit of Neural System</td>
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<td>200</td>
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<td>Body Fluids and Circulation</td>
<td>Circulatory pathways</td>
<td>Medium</td>
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</table>
Class Wise Question Distribution

As per our expert faculties, the questions from Class 12th syllabus dominated Class 11th syllabus in Physics. In Botany, the Class 11th syllabus dominated the Class 12th syllabus. Rest of the subjects had equal distribution of both Class 11th & Class 12th syllabus. Below is the Class wise question distribution table -

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<th>12th</th>
<th>Total Percentage</th>
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<td>Total Marks</td>
<td>No. of Questions</td>
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<td>24</td>
<td>96</td>
<td>26</td>
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<td>108</td>
<td>23</td>
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<td>388</td>
<td>103</td>
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Section Wise Difficulty Distribution

Section A
This section mostly had Easy or Medium type questions in all the subjects except Chemistry. Chemistry had 10 Difficult type questions, which is the most among all the subjects. This made Chemistry the toughest subject in Section A to attempt.

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Easy</th>
<th>Medium</th>
<th>Difficult</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No of Questions</td>
<td>Total Marks</td>
<td>No of Questions</td>
<td>Total Marks</td>
</tr>
<tr>
<td>Physics</td>
<td>20</td>
<td>80</td>
<td>13</td>
<td>52</td>
</tr>
<tr>
<td>Chemistry</td>
<td>8</td>
<td>32</td>
<td>17</td>
<td>68</td>
</tr>
<tr>
<td>Botany</td>
<td>17</td>
<td>68</td>
<td>15</td>
<td>60</td>
</tr>
<tr>
<td>Zoology</td>
<td>19</td>
<td>76</td>
<td>13</td>
<td>52</td>
</tr>
<tr>
<td>Grand Total</td>
<td>64</td>
<td>256</td>
<td>58</td>
<td>232</td>
</tr>
</tbody>
</table>

Section A - Difficulty Level

- **Difficult**
- **Medium**
- **Easy**
Section B
This section mostly had Easy or Medium type questions in all the subjects except Physics. Physics had 4 Difficult type questions, which is the most among all the subjects. This made Physics the toughest subject in Section B to attempt.

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Easy</th>
<th>Medium</th>
<th>Difficult</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No of Questions</td>
<td>Total Marks</td>
<td>No of Questions</td>
<td>Total Marks</td>
</tr>
<tr>
<td>Physics</td>
<td>3</td>
<td>12</td>
<td>8</td>
<td>32</td>
</tr>
<tr>
<td>Chemistry</td>
<td>7</td>
<td>28</td>
<td>7</td>
<td>28</td>
</tr>
<tr>
<td>Botany</td>
<td>9</td>
<td>36</td>
<td>4</td>
<td>16</td>
</tr>
<tr>
<td>Zoology</td>
<td>5</td>
<td>20</td>
<td>9</td>
<td>36</td>
</tr>
<tr>
<td>Grand Total</td>
<td>24</td>
<td>96</td>
<td>28</td>
<td>112</td>
</tr>
</tbody>
</table>

Section B - Difficulty Level

<table>
<thead>
<tr>
<th>Subjects</th>
<th>No of Questions</th>
<th>Easy</th>
<th>Medium</th>
<th>Difficult</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>8</td>
<td>3</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry</td>
<td>7</td>
<td>7</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Botany</td>
<td>9</td>
<td>9</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Zoology</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>
Overall Difficulty Level Analysis of NEET UG 2022 (Code - S5)

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Difficulty Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>1.66</td>
</tr>
<tr>
<td>Chemistry</td>
<td>1.92</td>
</tr>
<tr>
<td>Botany</td>
<td>1.58</td>
</tr>
<tr>
<td>Zoology</td>
<td>1.60</td>
</tr>
<tr>
<td>Overall</td>
<td>1.69</td>
</tr>
</tbody>
</table>

Easy - 1  Medium - 2  Difficult - 3
Comparative Difficulty Level Of Previous Year Question Papers

The 2022 NEET UG was comparatively a bit easier than 2021, but was difficult than the year 2020. As per expert faculties below are the Difficulty Ratings given to the previous years papers:

<table>
<thead>
<tr>
<th>Year</th>
<th>Difficult Rating</th>
<th>Difficulty Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>1.44</td>
<td>Easy to Medium</td>
</tr>
<tr>
<td>2021</td>
<td>1.71</td>
<td>Medium to Difficult</td>
</tr>
<tr>
<td>2022</td>
<td>1.69</td>
<td>Medium to Difficult</td>
</tr>
</tbody>
</table>

Conclusion :
- This year we had a new exam pattern which saw equal distribution of questions among each of the subjects.
- Subject wise Chemistry was toughest to attempt and Botany was the easiest subject.
- Equal weightage was given to the syllabus of Class 11th & Class 12th.
- Section wise difficulty, Section A saw Chemistry to be having more number of difficult questions and Section B saw Physics to be having more number of difficult questions.
- Overall the paper was found to be a bit easier than NEET 2021. Compared to last year, the Chemistry subject was found to be on a tougher side. Questions in Chemistry were more trick and lengthy than last year and were conceptually difficult. Rest of the subjects were almost of similar difficulty compared to last year.
- Expected cutoff to be in the similar range as that of previous years.