**NEET Paper Analysis 2018**

**Physics Paper Analysis**

* This section will have lengthy calculations.
* Class 11 syllabus was given more Weightage in NEET 2018.
* A significant number of questions were taken from topics like Mechanics, Modern Physics and Electrodynamics.
* There were 8 difficult, 27 medium level and 10 easy questions in this section

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| --- | --- | --- |
| **Topic** | **Number of questions** | **Marks** |
| Mechanics | 13 | 52 |
| Electrodynamics | 10 | 40 |
| Modern Physics | 8 | 32 |
| Optics | 5 | 20 |
| Heat & Thermodynamics | 5 | 20 |
| SHM and Waves | 4 | 16 |

**Important Topics in Physics**

There are some important topics in physics that every student must spend a considerable amount of time to understand the concepts.

* Electrodynamics
* KTG & Thermodynamic
* Semiconductors
* Rigid Body Dynamics
* Wave Optics
* Modern Physics

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| **Topic** | **No. of questions** | **Marks** | **Weightage** |
| Power | 1 | 4 | 2.22% |
| Power calculation in AC | 1 | 4 | 2.22% |
| Charging and discharging in a capacitor | 1 | 4 | 2.22% |
| Horizontal Circular Motion | 1 | 4 | 2.22% |
| Banking in a circular motion | 1 | 4 | 2.22% |
| Electrical Instruments | 1 | 4 | 2.22% |
| Vertical circular motion | 1 | 4 | 2.22% |
| Electromagnetic Waves | 1 | 4 | 2.22% |
| Power calculation | 1 | 4 | 2.22% |
| Coulomb’s Law in Electrostatics | 2 | 8 | 4.44% |
| Archimedes Principle in Fluid Mechanics | 1 | 4 | 2.22% |
| Magnification in Gravitation | 1 | 4 | 2.22% |
| Conductivity | 1 | 4 | 2.22% |
| Escape Velocity | 1 | 4 | 2.22% |
| Gravitation Potential | 1 | 4 | 2.22% |
| Refrigeration | 1 | 4 | 2.22% |
| Radiation | 1 | 4 | 2.22% |
| Magnetic field | 2 | 8 | 4.44% |
| Vector Algebra in Mathematical Tools | 2 | 8 | 4.44% |
| Solenoid in Magnetic Effects of Current | 1 | 4 | 2.22% |
| Magnetic Properties | 1 | 4 | 2.22% |
| Young’s Double Slit Experiment of wave optics | 1 | 4 | 2.22% |
| Diffraction in waves | 1 | 4 | 2.22% |
| Kinetic Theory of Gases in thermodynamics | 1 | 4 | 2.22% |
| The Calorimetry | 1 | 4 | 2.22% |
| Adiabatic Processes in thermodynamics | 1 | 4 | 2.22% |
| String waves in SHM | 1 | 4 | 2.22% |
| Resonance Tube in Sound Waves | 1 | 4 | 2.22% |
| Doppler Effect of Sound Waves | 1 | 4 | 2.22% |
| Logic Gates of Semiconductor Devices | 1 | 4 | 2.22% |
| The Transistors | 1 | 4 | 2.22% |
| Circuit Problems in Semiconductor | 1 | 4 | 2.22% |
| Torque | 1 | 4 | 2.22% |
| Intertia | 1 | 4 | 2.22% |
| Centre of Mass in Rigid Body Dynamics | 1 | 4 | 2.22% |
| De Broglie’s Principle | 1 | 4 | 2.22% |
| Photoelectric Effect in modern physics | 1 | 4 | 2.22% |
| Bohr Model of an atom | 1 | 4 | 2.22% |
| Newton Law of Motion in mechanics | 1 | 4 | 2.22% |
| The rectilinear motion | 1 | 4 | 2.22% |
| Grand total | 45 | 180 | 100% |

**Chemistry Paper Analysis**

* The Chemistry section had more questions from the class 12 syllabus last year and was quite tricky.
* Most of the questions were from Organic Chemistry last year.
* Most of the questions were conceptual and application-based so students are advised to have a thorough understanding and total clarity about the basic concepts.

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| **Topic** | **Number of questions** | **Marks** |
| Inorganic Chemistry- I | 8 | 32 |
| Inorganic Chemistry- II | 8 | 32 |
| Organic Chemistry- I | 3 | 12 |
| Organic Chemistry- II | 13 | 52 |
| Physical Chemistry- I | 7 | 28 |
| Physical Chemistry- II | 6 | 24 |

**Important topics in Chemistry**

Since organic chemistry has gained more Weightage in recent papers, there are some important topics that students must prioritize while preparing for NEET.

* Organic Chemistry-I
* Chemical Bonding
* Carbonyl Compounds
* Coordination Compounds

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| **Topic** | **Question** | **Marks** | **Weightage** |
| Inorganic Chemistry | 15 | 60 | 33.33% |
| Chemical bonding | 4 | 16 | 8.89% |
| Coordination compounds | 1 | 4 | 2.22% |
| D-block elements | 1 | 4 | 2.22% |
| Hydrogen gas | 1 | 4 | 2.22% |
| Metallurgy process | 1 | 4 | 2.22% |
| Alcohol compounds | 1 | 4 | 2.22% |
| P-block elements | 4 | 16 | 8.89% |
| Periodic table of chemistry | 3 | 12 | 6.67% |
| Organic chemistry | 16 | 64 | 35.56% |
| Aldehydes and Ketones compounds | 2 | 8 | 4.44% |
| Amines | 1 | 4 | 2.22% |
| Biomolecules | 3 | 12 | 6.67% |
| Chemistry in everyday life | 2 | 8 | 4.44% |
| Hydrocarbon in organic | 2 | 8 | 4.44% |
| Isomerism of compounds | 2 | 8 | 4.44% |
| Ether compounds | 1 | 4 | 2.22% |
| GOC | 1 | 4 | 2.22% |
| Polymers and uses | 1 | 4 | 2.22% |
| Structure of atom | 1 | 4 | 2.22% |
| Chemical equilibrium | 1 | 4 | 2.22% |
| Physical chemistry | 14 | 56 | 31.11% |
| Chemical Kinetics | 2 | 8 | 4.44% |
| Electrochemistry | 1 | 4 | 2.22% |
| Gaseous State of matter | 1 | 4 | 2.22% |
| Ionic Equilibrium in chemistry | 1 | 4 | 2.22% |
| Surface chemistry | 1 | 4 | 2.22% |
| The solid state of matter | 2 | 8 | 4.44% |
| Solution and its colligative properties | 2 | 8 | 4.44% |
| Thermodynamics | 2 | 8 | 4.44% |
| Grand total | 45 | 180 | 100% |

**Biology Paper Analysis**

* Biology was comparatively easier than Physics and Chemistry
* There will be 90 questions, 45 each from Botany and Zoology.
* It is important for students to review and do a Paper Analysis of the last 10 years for Biology to comprehend the exam trends and pattern.
* This year’s biology paper is expected to be tougher.
* Human Physiology and Plant Physiology were the two most important topics carrying most Weightage. Most of the questions were from NCERT books.

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| **Topic** | **Number of questions** | **Marks** |
| Biological Classification | 3 | 12 |
| Cell Biology | 4 | 16 |
| Ecology | 6 | 24 |
| Genetics | 5 | 20 |
| Living World | 1 | 4 |
| Molecular Basis of Inheritance | 6 | 24 |
| Morphology | 1 | 4 |
| Morphology of flowering plants | 1 | 4 |
| Plant Anatomy | 3 | 12 |
| Plant Kingdom | 6 | 24 |
| Plant Morphology | 2 | 8 |
| Reproduction in Flowering Plant | 5 | 20 |
| Animal Kingdom | 3 | 12 |
| Animal Morphology | 1 | 4 |
| Animal Physiology | 1 | 4 |
| Bio molecules | 4 | 16 |
| Biotechnology | 3 | 12 |
| Evolution | 1 | 4 |
| Human Health and Disease | 3 | 12 |
| Human Physiology | 16 | 64 |
| Microbes in Human Welfare | 3 | 12 |
| Reproductive Health | 2 | 8 |
| Strategies for Enhancement of Food Production | 2 | 8 |

**Important Topics in Biology**

As per the analysis of NEET 2018, Zoology part had more questions from class 12 syllabus while Botany section had more questions from class 11 syllabus. Plant Diversity and Human Physiology will have more Weightage and should be covered thoroughly. Some important topics to cover are:

* Plant Anatomy
* Pollination
* DNA Replication
* Photosynthesis
* PAGE Theory
* Endocrine System
* Excretory and Nervous System
* Digestive System

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| --- | --- | --- | --- |
| **Topic** | **Question** | **Marks** | **Weightage** |
| General Knowledge in Animal Diversity | 1 | 4 | 2.22% |
| Circulatory system in animals | 1 | 4 | 2.22% |
| Amino Acids in bio molecules | 1 | 4 | 2.22% |
| Lipids | 1 | 4 | 2.22% |
| Carbohydrate in bio molecules | 1 | 4 | 2.22% |
| Application of biotechnology | 1 | 4 | 2.22% |
| The Animal Kingdom | 4 | 16 | 8.89% |
| Digestive System of animals | 2 | 8 | 4.44% |
| Respiratory System of animals | 2 | 8 | 4.44% |
| Operon Model in biotech | 1 | 4 | 2.22% |
| Plasmid | 1 | 4 | 2.22% |
| Polymerage Chain Reaction | 1 | 4 | 2.22% |
| Homologous organs | 1 | 4 | 2.22% |
| Analogous Organs in evolution | 1 | 4 | 2.22% |
| Origin of life | 1 | 4 | 2.22% |
| Theory of evolution | 1 | 4 | 2.22% |
| The disease of cancer | 1 | 4 | 2.22% |
| The nervous system in human physiology | 1 | 4 | 2.22% |
| DNA Fingerprinting in biotechnology | 2 | 8 | 4.44& |
| Endocrine Glands in system | 3 | 12 | 6.67% |
| Immunology from disease | 3 | 12 | 6.67% |
| Biological Classification of Living World | 1 | 4 | 2.22% |
| The water pollution | 1 | 4 | 2.22% |
| Organism and Population: ecology | 1 | 4 | 2.22% |
| Issues of environment | 1 | 4 | 2.22% |
| molecular basis of inheritance in genetics | 1 | 4 | 2.22% |
| Mineral nutrition in plants | 1 | 4 | 2.22% |
| growth and development of plants | 1 | 4 | 2.22% |
| Genetics | 1 | 4 | 2.22% |
| Biological Classification in the living world | 1 | 4 | 2.22% |
| Cell basics | 1 | 4 | 2.22% |
| Cell cycle and division | 1 | 4 | 2.22% |
| Cell: The unit of life | 1 | 4 | 2.22% |
| Cell cycle | 1 | 4 | 2.22% |
| The Cell Organelles | 1 | 4 | 2.22% |
| Cell Biology | 1 | 4 | 2.22% |
| Structural Organization of Animal | 1 | 4 | 2.22% |
| Structural Organization of Animal | 1 | 4 | 2.22% |
| Respiratory System in Human Physiology | 2 | 8 | 4.44% |
| Microbes useful to human welfare | 2 | 8 | 4.44% |
| Reproduction in female | 2 | 8 | 4.44% |
| Reproduction in human | 2 | 8 | 4.44% |
| Reproductive health | 2 | 8 | 4.44% |
| Division of cell | 2 | 8 | 4.44% |
| Kingdom of plants | 5 | 20 | 11.11% |
| Biodiversity and Conservation | 3 | 12 | 6.67% |
| Ecosystem | 2 | 8 | 4.44% |
| The principle of Inheritance and variation | 4 | 16 | 8.89% |
| The process of Photosynthesis | 5 | 20 | 11.11% |
| Sexual Reproduction in flowering plants | 5 | 20 | 11.11% |
| Anatomy of Flowering Plants | 2 | 8 | 4.44% |
| Plants Morphology | 4 | 16 | 8.89% |
| Grand total | 90 | 360 | 100% |