

Important 500 Questions Of Physics part-3

Description

The “Important 500 Questions Of Physics part-3” is an invaluable resource for students gearing up for upcoming exams due to its comprehensive coverage of essential physics topics. By presenting a curated set of 500 questions, this resource allows students to test their understanding and grasp of various concepts in physics. It serves as an effective tool for self-assessment and targeted revision, enabling students to identify their strengths and weaknesses. Additionally, practicing with these questions helps students familiarize themselves with the exam format and improve their problem-solving skills, ultimately enhancing their performance on exam day.



Important 500 Questions Of Physics part-3

- Who invented electronic computer? **Dr. Alan M. Turing**
- One horse power (HP) contains? **746 W**
- How many meters are there in one angstrom? **10^{-10}m**
- The weight of one kilogram is? **8 newtons**
- How many calories are in one joule? **24**
- Occurs in one nano second? **10^{-9}s**
- One nanometer is equal to? **10^{-7}cm**
- One light year is closest to? **10^{15}m**
- What is the distance in one light year? **$46 \times 10^{12}\text{km}$**
- How many meters are there in one micron? **10^{-6}**
- What is one micron equal to? **001mm**
- The penetrating power of X-rays can be increased by **increasing the potential difference between cathode and anode.**
- The atomic number of carbon is 6 and atomic weight is 12. How many protons are there in its nucleus? **6**
- The maximum number of electrons that can be in the second orbit of an atom of an element is? **8.**
- What determines the chemical properties of an element? **Number of electrons**
- The chemical properties of an element depend on its **atomic number.**
- Block Hole theory was propounded by? **S. Chandrashekar**
- Which electronic configuration is for metal element? **2, 8, 8, 2**
- Which scientist was co-winner of the Nobel Prize with his sons? **William Henry Bragg**
- How will the height of a six feet tall person be expressed in nanometers? **approximately $183 \times 10^7 \text{Å}$ nanometers**
- When two electrons are in the same shell, what is found in them? **anti-cycle**
- Energy transformation takes place in dynamos? **from mechanical energy to electrical energy.**
- One barrel of oil is approximately equal to? **159 liters**
- What is the purpose of thermostat? **to keep the temperature constant**
- With the help of which particles did Rutherford discover the nucleus? **$\hat{\pm}$ -particles**
- The electronic configuration of the atom with atomic number 20 is? **2, 8, 8, 2**
- Who invented the first incandescent bulb? **J. A. Fleming**
- Photoelectric cell converts light energy into **electrical energy.**
- The discoverer of meson is? **Yukawa**
- Converts chemical energy into electrical energy? **battery**
- In the context of a molecule of a chemical element, the magnetic quantum number is related to? **spin**
- The device used to record and reproduce recorded dictation is called? **Dictaphone.**
- Rectifier is used to convert **AC to DC.**
- Cyclotron is a device which provides energy to **charged particles.**
- By studying the scattering of what from gold foil, Rutherford discovered the nucleus? **$\hat{\pm}$**
- The substance formed after 1 $\hat{\text{A}}$ (beta) emission from $_{11}\text{Na}^{22}$ is? **Mg**
- What is the number of protons in a negatively charged atom (anion)? **less than the number of electrons in the atom**
- Which scientist discovered gamma rays? **Rutherford**
- The atomic number of an element does not help in determining what? **Number of neutrons present in the nucleus**
- Which has negative charge? **Gamma ray**

- If the atomic number of an element is 35 and it has 18 electrons, then the number of protons in it will be **18**
- The most appropriate statement related to the atomic weight of an element is **Unlike the mass number, the atomic weight of an element can vary.**
- If there are 2 protons, 2 neutrons and 2 electrons in the atom of an element, then what will be the mass number of that element **4**
- What are gamma rays **high energy rays emitted by radioactive substances**
- The number of protons in element ${}^{92}\text{U}_{235}$ is **92**
- The nature of elements can be known **through electronic configuration.**
- To discover the nucleus, when Rutherford showered alpha ($\hat{\alpha}$) particles on a thin metal sheet, **most of the alpha particles passed through the metal foil without any deflection.**
- What is used to absorb neutrons to control the chain reaction during nuclear fission **Boron**
- The mass number of the nucleus is always greater than its **atomic number.**
- The effective radius of an atom is **10^{-10}Å m**
- The number of electrons in an atom of atomic number Z and mass number A is **Z**
- Beta ($\hat{\beta}$) rays are **from negatively charged particles.**
- If the amount of a radioactive substance is doubled, **the rate of radioactive decay remains unchanged.**
- Which scientist first discovered radioactivity **Henri Becquerel**
- Radioactive substances emit **alpha particles, beta particles, gamma particles**
- Atomic number of sodium is 11 and atomic mass is 23. The numbers of electrons, neutrons and protons in this will be **11, 12, 11 respectively.**
- Stable nuclei (with light $A < 10$) have **approximately equal numbers of neutrons and protons.**
- Equal volumes of gases at the same temperature and pressure have the same number of molecules. According to which rule is this **Avogadro's hypothesis**
- What kind of salt is H_2CO_3 **Acidic**
- Solutions in test tubes filled with H_2O and aqueous NaOH can be differentiated by **Red litmus**
- pH value indicates whether a solution is **acidic or alkaline.**
- The very soft mineral **talca** is mainly **magnesium silicate.**
- Aqueous solution of ammonium chloride is **alkaline**
- Molybdenum acts as a catalyst enhancer in the **Haber process of ammonia production.**
- What is the gaseous mixture of carbon monoxide and nitrogen gas called **Producer gas**
- What is the pH level of blood of a normal person **7.35-7.45**
- Aqueous solution of copper sulphate is acidic in nature, because the salt undergoes **Hydrolysis**
- **Cupric chloride** is used as a catalyst in the Decan method of making chlorine gas.
- What are present in the solution of common salt in water – **positive ions of sodium and negative ions of chlorine**
- Aqueous solution of which salt turns red litmus blue **Na_2CO_3 positive ions of sodium and negative ions of chlorine**
- The salts which remain free from acidic hydrogen atom or hydroxyl ion are called **normal salts.**
- pH value of milk is **6.6**
- Absolute zero temperature is **theoretically the lowest possible temperature.**
- The base used as counter acid is **Magnesium hydroxide**
- What does ashes taste like **salty**
- Although the amount of aluminum in the earth's crust is greater than that of iron, yet aluminum is more expensive than iron because **the metallurgical processes of producing aluminum are more expensive than those of iron.**
- The role of a catalyst in a chemical reaction is **to change activation energy.**
- Salt which absorbs water is called **hygroscopic salt**
- Those substances which provide heat by burning are called **fuel**

- Platinum powder is used as a catalyst in the contact method of making **sulfuric acid**.
- From safety point of view, what is filled in G gas cylinder to make the gas deodorized? **Mercapton**
- By reducing the volume of a gas at constant temperature, its pressure **increases**.

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