

Important 500 Questions Of Physics part-4

Description

The “Important 500 Questions Of Physics part-4” 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-4

- The physical and chemical properties of elements are periodic functions of their atomic weights. Who propounded this law? **Mendeleev**
- 1 kilometer distance means **1000m**
- 1 Nautical Mile is equal to **1.85Km**
- 1 Fathom is equal to **1.80 Km**
- 1 bar is equal to **10^5 Pa**
- How many liters are there in 1 barrel? **159**
- 1 mile is equal to **1.61Km**
- Inert elements are members of which group? **Zero group**
- A jet aircraft is flying in the air with a speed of Mach 2. When the speed of sound is 332 m/s then what is the speed of the aircraft? **664 m/s**
- A biological method that uses ultrasonic sound? **sonography**
- One picogram is equal to **10^{-12} g**
- One micron is equal to **1/1000 mm**
- The elements of which group are called coin metals? **IB**
- The fluctuation in frequency of a sound source is called? **Doppler effect.**
- Which element when mixed with iron forms steel which can resist high temperatures and which has high hardness and abrasion resistance? **Chromium**
- Which waves cannot propagate in vacuum? **sound**
- The chemical composition of rust is? **$\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$**
- The weight of iron increases when it **rusts.**
- Important metals used in making rust-free iron are? **Chromium**
- When two loudspeakers play simultaneously at a place, the listener sitting at a particular place does not hear their sound. The reason for this is? **interference**
- When the army crosses the bridge, the soldiers are instructed not to walk out of step because there is a danger of the bridge collapsing due **to the resonance of the sound produced by the feet.**
- Doppler effect is related to **sound**
- Who did the first classification of elements? **Dobereiner**
- Due to which sound waves produce echo? **Reflection**
- Sound cannot pass through **vacuum**
- The speed of light in vacuum is? **$3 \times 10^8 \text{ meters/second}$**
- The frequency or intensity of the whistle of an approaching train increases, due to which phenomenon? **Doppler effect**
- Which is the second most abundant metal in the earth's womb? **Iron**
- Resonance occurs due to waves? **Reflection**
- What is the value of Planck's constant? **$6.6 \times 10^{-34} \text{ joule second}$**
- The minimum parameters required for setting up an aluminum enterprise in India are bauxite and availability of? **Electricity.**
- If v_a , v_w , and v_s are the velocity of sound in air, water, and steel respectively, then? **$v_a < v_w < v_s$**
- Radio tuning station is an example of? **translational**
- In which medium the speed of sound will be maximum at a temperature of about 200C? **Iron**
- Which metal is added to convert iron into steel? **Nickel**
- By what name are the elements kept in zero group known? **Inactive elements**
- Sonar is mostly used? **by navigators.**
- On which principle of sound does the stethoscope work? **reflection**

- To hear a clear echo, there should be a minimum distance of 30 meters between **the reflecting surface and the sound source.**
- We listen to programs from different stations by turning the knob of the radio. This is possible **due to resonance**
- What is the instrument used for identifying and mapping sound waves called **Sonar**
- Which shock wave does a supersonic aircraft produce? **Ultrasonic wave**
- Echo sounding is used to measure the **depth of the ocean.**
- Two people cannot hear each other on the surface of the Moon because **there is no atmosphere on the Moon.**
- While shouting, a person always keeps the palm near the mouth, **because in that case the sound energy will point in only one direction.**
- Decibel unit is used for intensity of **sound.**
- Sound or noise pollution is measured in **decibels.**
- The speed of sound in air is 332 meters per second. If the pressure is doubled then the speed of sound will be **332 m/second.**
- What does sound travel fastest in **steel**
- Thunder is heard long after the flash of lightning. The reason for this is **the speed of light is much greater than the speed of sound.**
- The speed of sound in air is approximately **330 m/s.**
- The speed of sound is lowest in **gas.**
- What is the mass number of an element whose atom has two protons, two neutrons and two electrons? **4**
- The size of the nucleus is **10^{-15} m**
- Energy is created on the Sun **through nuclear fusion**
- Which has negative charge **\tilde{A} particle**
- The difference between a nuclear reactor and an atomic bomb is that **in a nuclear reactor the chain reaction is controlled.**
- The alpha particle has two units of positive charge. Its mass is **approximately equal to that of one atom of helium.**
- At what temperature is the density of water maximum **at 4°C**
- Which part of the sun's radiation heats the solar cooker **infrared rays**
- Clothes keep us warm in winter because **they prevent body heat from going out.**
- When does water boil **The static vapor pressure of water is equal to the atmospheric pressure.**
- By which method is heat transferred in liquids and gases? **Convection**
- A piece of ice is floating in a glass filled with water. When the piece melts completely, **the level of water in the glass remains unchanged.**
- What is the transmission of heat through molecular structure called **convection**
- The boiling point of a liquid will increase as pressure **increases.**
- Steam burns hands more than boiling water because steam contains **latent heat.**
- When two pieces of ice are pressed together, the pieces stick together because **due to higher pressure, the melting point of ice decreases.**
- Why are white clothes cooler than black clothes **they reflect whatever light reaches them**
- Woolen clothes are warmer than cotton clothes because **they are good insulators of heat.**
- Bolometer is an instrument which measures- **thermal radiation.**
- The unit of measuring distance between stars is **light year**
- **Tachyon** means particles moving faster than the speed of light.
- Einstein introduced the **fourth dimension** in physics.
- What is the instrument that measures the intensity of sun rays called **Actiometer**
- How is the rotation per second of a flying disc measured **Stroboscope**
- The function of thermostat in refrigerator is **to maintain uniform temperature.**

- Which concept is confirmed by the first law of thermodynamics? **conservation of energy**
- Cryogenic engines are used in **rocket technology**.
- Cryogenics is used in **space travel, magnetic levitation and telemetry**.
- Rice cooks quickly in a pressure cooker because? **high pressure increases the boiling point of water.**

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