



PHYSICS

BOOKS - NAVNEET SCIENCE (HINGLISH)

SCIENTIFIC REASONS

Gravitation

1. If a feather and a stone are released from the top of a building simultaneously, the stone

reaches the ground earlier than the feather.



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2. The weight of a body is different on different planets.



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3. With a specific initial velocity, we can jump higher on the moon than on the earth.



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Periodic Classification Of Elements

1. Atomic radius goes on decreasing while going from left to right in a period. Give reason



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2. Metallic character goes on decreasing while going from left to right in a period. Give

reason



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3. Atomic radius goes on increasing down a group. Give reason



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4. Elements belonging to the same group have the same valency. Give reason



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5. Zero group elements (inert gases) are called noble gases. Give reason



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6. While going down the second group, the reactivity of the alkaline earth metals increases.



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7. The third period contains only eight elements even though the electron capacity of the third shell is 18.



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8. Fluorine is the most reactive among the halogens.



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1. Grills of doors and windows are always painted before they are used. Give reason



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2. Physical states of reactants and products are mentioned while writing a chemical equation.



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3. It takes time for pieces of Shahabad tile to disappear in HCl, but its powder disappears rapidly.



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4. When the gas formed on heating lime stone is passed through freshly prepared lime water, the lime water turns milky.



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5. It is recommended to use air tight container for storing oil for long time. Give reason



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6. Concentrated hydrochloric acid reacts more vigorously with calcium carbonate than dilute hydrochloric acid.



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7. Zinc powder reacts much faster with dil. H_2SO_4 than does granulated zinc of the same mass. Give reason



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Effects Of Electric Current

1. For electric power transmission, copper or aluminium wire is used.



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2. In practice the unit kW.h rather than the joule, is used for the measurement of electric energy.



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3. Tungsten is used to make a solenoid type coil in an electric bulb.



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4. The coils in heating devices such as a toaster and electric iron are made of an alloy such as Nichrome, rather than a pure metal.

Give reason



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5. The coils in heating devices such as a toaster and electric iron are made of an alloy such as Nichrome, rather than a pure metal.

Give reason



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6. In an electric iron, the coil of high resistance is kept between mica sheets.



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7. The material used for fuse has low melting point.



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8. A fuse should be made of a material of low melting point. Give reason



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Heat

1. Even though heat is supplied to boiling water, there is no increase in its temperature.



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2. Burns from steam are worse than those from boiling water at the same temperature. Give reason



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3. In winter, the pipelines carrying water burst in cold countries.



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4. if crushed ice is pressed and then the pressure is released, a lump of ice is formed.



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5. In cold countries, in winter, even when the water of lakes freezes, aquatic animals and plants can survive. Give reason



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6. Water droplets are seen on the outer surface of a cold drink bottle. Give reason



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7. During cold nights, sometimes dew is formed. Give reason



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8. When you enter a warm room after being outside on a frosty early morning, your spectacles 'steam up'. Give reason



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9. A plastic bottle, completely filled with water, when kept in a freezer, is likely to break. Give reason



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10. The outer surface of a beaker containing ice cubes becomes wet in a short while. Give reason



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Refraction Of Light

1. A pencil dipped in water obliquely appears bent at the surface of water. Give reason



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2. When a pencil is partly immersed in water and held in a slanting position, it appears to be bent at the boundary separating water and air. Give reason



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3. The shadow of the edge of an empty vessel is formed due to the slanting rays of the sun. When water is poured in the vessel, the shadow is shifted.





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4. The bottom of a pond appears raised.



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5. While shooting a fish in a lake, the gun is aimed below the apparent position of the fish.



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6. The sun is seen on the horizon a little before sunrise.



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7. The sun is seen on the horizon for sometime even after sunset.



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1. A simple microscope is used for watch repairs. Give reason



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2. Watch repairers use a magnifying glass. Give reason



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3. In old age a bifocal lens is necessary for some persons. Give reason



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4. A person suffering from myopia (nearsightedness) uses spectacles of concave lenses. Give reason



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5. A person suffering from hypermetropia (farsightedness) uses spectacles of convex lenses. Give reason



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6. You cannot enjoy watching a movie from a very short distance from the screen in a cinema hall. Give reason



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7. We cannot clearly see an object kept at a distance less than 25 cm from the eye. Give reason



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8. One can sense colours only in bright light. Give reason



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9. The rays of light travelling through the optical centre of a lens pass without changing their path.



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10. A convex lens converges the rays of light falling on it.



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11. A concave lens diverges the rays of light falling on it. Give reason



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12. When a burning stick of incense is moved fast in a circle, a circle of red light is seen.

Give reason



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13. Colour-blind persons are unable to distinguish between different colours.

Give reason



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14. It is risky to issue a driving license to a person suffering from colour-blindness.

Give reason



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1. Sodium is always kept in kerosine.

Give reason



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2. Why is sodium stored in kerosine ?



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3. Calcium floats on water during the reaction with water.

Give reason



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4. Generally the ionic' compounds have high melting points.

Give reason



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5. Lemon or tamarind is used for cleaning copper vessels turned greenish.



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6. Metals are good conductors, while nonmetals are poor conductors of electricity.

Give reason



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7. When zinc granules are added to copper sulphate solution, the blue coloured solution turns colourless.

Give reason



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8. When an iron nail is dipped into a copper solution, a shiny coat of copper is formed on the nail.

Give reason





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9. Cryolite (Na_3AlF_6) and fluorspar (CaF_2) are added to the electrolytic mixture containing pure alumina.



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10. Pine oil is generally added in the froth floatation process. Explain.



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11. Froth floatation process is based on



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12. Anodes need to be replaced from time to time during the electrolysis of alumina.



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13. Silver amalgam is used for filling dental cavities.



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Carbon Compounds

1. Carbon atoms are capable of forming an unlimited number of compounds.

Give Reason.



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2. Ethylene is an unsaturated hydrocarbon.

Give Reason



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3. Naphthalene burns with a clean blue flame.



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4. The colour of iodine disappears in the reaction between vegetable oil and iodine.



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5. The hydrogenation of vegetable oil in the presence of nickel catalyst forms vanaspati ghee.

Give reason.



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Space Missions

1. Why are geostationary satellites not useful for studies of polar regions ?



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Assignment

1. A convex lens is known as a converging lens.

Give reason.



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2. A concave lens is called a diverging lens.

Give Reason



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3. Sodium is more reactive than aluminium.

True/False



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4. Sodium is more reactive than aluminium.

True/False



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