



PHYSICS

BOOKS - NAVNEET SCIENCE (HINGLISH)

TRUE OR FALSE

State Whether The Statement Are True Or False

1. If the separation between two particles is halved, the gravitational force between the

particles becomes half the initial force. State true or false.



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2. The CGS unit of the universal constant of gravitation is the dyne $cm^2 / gram^2$.



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3. At the centre of the earth , the value of the acceleration due to gravity becomes zero.



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4. The weight of a body is minimum at the poles.

True/False



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5. Mass is a vector quantity.



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6. Weight is a vector quantity.



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7. g has maximum value at the equator



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8. Outside the earth, g varies as $1 / (R + h)^2$.



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9. The value of G changes from place to place.

True/False



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10. The value of g increases with altitude.

True/False



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11. The escape velocity of a body does not depend on the mass of the body.



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12. The mass of a body is the amount of matter present in it.



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Periodic Classification Of Elements

1. Newlands was the first to classify elements having similar chemical properties into groups of three.

True/False



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2. Dobereiner named the group of elements having similar properties as Triads.

True/False



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3. Dobereiner stated the law of octet.

True/False



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4. Newlands stated the law of triads.

True/False



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5. Eka-aluminium was later named as germanium.

True/False



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6. Mendeleev's periodic table is more useful because it gives information about known and unknown elements.

True/False



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7. Mendeleev arranged elements in the increasing order of their atomic masses.

True/False



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8. Mendeleev was the first who successfully classified all known elements.



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9. In the modern periodic table, properties of the elements are a periodic function of their atomic numbers.

True/False



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Chemical Reactions And Equations

1. Rusting of iron is a fast reaction.

True/False



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2. Milk is set into curd is a chemical change.



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3. The reaction between salt and water is an example of exothermic reaction.



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4. The speed of a chemical reaction depends on the catalyst used in the chemical reaction.

True/False



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5. The simple form of representation of a chemical reaction in words is known as word reaction.

True/False



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6. Nascent oxygen is always denoted by showing the symbol of oxygen.



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7. Antioxidants are used to prevent oxidation of food containing fats and oils.

True/False



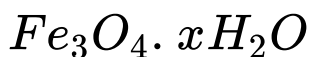
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8. When oils and fats are allowed to stand for a long time , they becomes rancid.



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9. The chemical formula of rust is



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10. Glucose combines with oxygen in our body and provides energy . The reaction is an

endothermic reaction.

True/False



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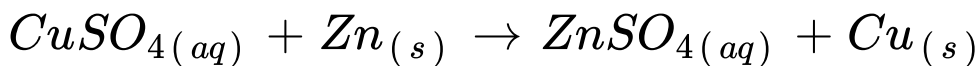
11. Chemical reactions in which reactants gain oxygen are reduction reactions.

True/False



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12.



is an example of decomposition reaction.

True/False



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13. The chemical reactions in which heat is liberated are called endothermic reactions.



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Effects Of Electric Current

1. Electric power = V^2 / R .



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2. Magnetic poles exist in pairs.



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3. Electromagnetism was discovered by Oersted.



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4. Magnetic field increases as we go away from a magnet.



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5. Magnetic lines of force intersect each other .



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6. Electric generator is used to generate current .



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7. An electric motor converts mechanical energy into electric energy.



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8. In India, the frequency of AC is 50 Hz.



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9. The electricity meter in the domestic electric circuit measures electrical energy consumption in kilowatt. Hours.



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Heat

1. Specific latent heat of fusion is expressed in g/cal.



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2. If the temperature of water is raised from $0^{\circ}C$ to $10^{\circ}C$, its volume goes on increasing .



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3. At dew point relative humidity is 100%.



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4. $1\text{kcal} = 4.18\text{ joules}$.



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5. Relative humidity has no unit.



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6. Absolute humidity is expressed in kg/m^3 .



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Refraction Of Light

1. The incident ray and the refracted ray of light are on the opposite sides of the normal at the point of incidence. The above statement is true and false ?



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2. The refractive index of medium (such as glass) does not depend on the wavelength of light.

State True/False



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3. If the angle of incidence is 0° , the angle of refraction is 90° .



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4. In dispersion of white light by a glass prism, yellow colour is deviated the least. State whether this statement is true or false. If false, what correction should be made?



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5. In vacuum, the speed of light does not depend upon the frequency of light.



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6. In glass, the speed of violet ray is less than that of red ray.



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7. In a material medium, the speed of light depends on the frequency of light .



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8. The velocity of light is different in different media.



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9. The wavelength of red light is close to 700 nm.



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10. The wavelength of orange light is greater than that of blue light .

True/False



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Lenses

1. Power of a lens , $P = \frac{1}{f}$.

True/False



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2. If the power of a lens is 2 D, its focal length =0.5m.

True/False





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3. A concave lens is a converging lens.

True/False



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4. A convex lens is a diverging lens.

True/False



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5. A concave lens always forms a virtual image.

True/False



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6. Due to the light sensitive cells in the eye, we get information about the brightness or dimness of the object and the colour of the object .

True/False



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7. The focal length of a concave lens is negative.

True/False



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8. The magnification produced by a concave lens is positive or negative depending on the object distance.

True/False



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9. The magnification produced by a convex lens is positive or negative depending on the object distance.

True/False



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10. A convex lens is used as a simple microscope .

True/False



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11. A concave lens is used to correct myopia.

True/False



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12. A convex lens is used to correct hypermetropia.

True/False



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13. When an object is placed in front of a concave lens, its image is obtained on the opposite side of the object.

True/False



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14. The principal focus of a convex lens is virtual .

True/False



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1. Diamond is the softest natural substance.

True/False



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2. Electrolysis method is used to obtain pure metals from impure metals. True/ false



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3. Aquaregia is a mixture of conc. HCl and conc. HNO_3 in the ratio of 1:3.

True/False



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4. Corrosion of metals can be stopped by detaching the air from metals.

True/False



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5. Ionic compounds are soluble in kerosene.

True/False



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6. Ionic compounds in the solid state conduct electricity.

True/False



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7. Mercury, silver and gold are very reactive metals. True/ false



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8. In electroplating , a metal is coated with another metal using of alloying .



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9. Silver plated spoon, gold plated ornaments are the examples of alloying

True/False



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10. Silver amalgam is mainly used by dentists.

True/ false



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11. Aluminium oxide is an acidic oxide.

True/False



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Carbon Compounds

1. Unsaturated hydrocarbons are less reactive than saturated hydrocarbons.

True/False



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2. Benzene is an aromatic compound.

True/false



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3. Naphthalene burns with a yellow flame.

True/false



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4. Denatured ethanol is used as industrial solvent. True/False



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5. Vinegar is a 12 – 15 % aqueous solution of acetic acid. True/false



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6. The functional group of ethanoic acid is a carboxylic group .True/false



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7. Polyethylene is a homopolymer.



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8. The chemical bonds in carbon compounds do not produce ions. True/false



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Space Missions

1. If a spacecraft has to sent away from the influence of the earth's gravitational field, its velocity must be less than the escape velocity .



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2. The escape velocity on the moon is less than that on the earth.



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3. A satellite needs a specific velocity to revolve in a specific orbit.



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4. If the height of the orbit of a satellite increases, its velocity must also increase.

True/false



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Assignment

1. Gravitational force, $F = Gm_1m_2/r$.



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2. There are seven periods in the long form of the periodic table.



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3. Nascent oxygen is always denoted by showing the symbol of O . True/false



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4. The SI unit of heat is the joule .





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5. Iodine and diamond are lustrous substances. True/false



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6. $v_e = \sqrt{\frac{2GM}{R}}$



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