Physics (New Book) - 9th Class Physics English Medium Short Question Preparations

Q1. The weight of an object is less a=on moutains as compared on sesa level

Ans 1: The value of g is less on mountains as compared to sea level therefore the weight of an object is also less on mountains as compared to sea level

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Q2. Why water is not suitable to be used in a barometer

Ans 1: Water is lighter than mercury To measure atmospheric pressure at sea level a glass tube more than 10m long is required to make a water barometer, which is difficult to a handle.

Q3. Describe two situations in which force of friction is needed?

Ans 1: 1-We cannot write if there would be no friction between pen and paper
2- Friction enables us to walk on the ground. we cannot run on a slippery ground. A slippery ground offers very less friction.

Q4. Why metal are good conductors of heat?

Ans 1: Metals are good conductors of heat because they have free electrons. These free electrons move with very high velocities within the metals. They carry energy at a very fast rate from hot to cold parts of object.

Q5. What is meant by Rigid body

Ans 1: Rigid Body: A body is composed of large number of small particles. If the distance between all pairs of particles of the body do not change by applying of force the, it is called rigid body A rigid body is the one that is not deformed by force or forces acting on it

Ans 2: Example: Object made by wooden or cardboard are example of rigid body

Ans 3: Line of action of force: The line alone which a force acts is called the line of acting of the force.

Q6. How much Moon is away from the Earth and Completes its cycle around the Earth

Ans 1: Moon in nearly 3,80000 km away from the Earth it completes its one revolution around the Earth in 27.3 days

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Q7. Estimate your age in seconds

Ans 1: Age in years= 15
Age in seconds=15 x 365 x24 x60x60

=473040000 second

Q8. Define potential energy, also give its formula.

Ans 1: The energy possessed by a body due to to position is called potential energy. There are two type of potential energy. . Formula: P.E. = mgh i. Elastic potential energy ii.Gravitational potential energy.

Q9. What is meant by bio mass energy

Ans 1: Bio Mass: Biomass is plant or animal wastes that can be burnt as fuel Other forms of biomass are garbage, farm wastes, sugarcane and other plants. The energy obtained from biomass is called biomass energy

Q10. Define Momentum.

Ans 1: Momentum of a body is the quantity of motion it possesses due to its mass and velocity. Formula ; P = m x v Unit: Kgms-1 or Ns.

Q11. How is energy converted from one form to another

Ans 1: Energy can be converted from one from to another form For example heat energy is converted into mechanical energy and electrical energy can be converted into light energy

Q12. What is a satellite

Ans 1: Satellite: An object that revolves around a planted is called a satellite

Ans 2: Example: The Moon revolves around the Earth so moon is a natural satellite of the Earth

Q13. Why temperature of Ind near water remains moderate

Ans 1: The presence of large water reservoirs such as lakes and seas keep the climate moderate due to large heat capacity of their reservoirs.

Ans 2: Example: Heat capacity of water

Q14. Define Brownain motion

Ans 1: Define Brownian motion

Ans 2: Random motion of gas molecules is called Brownian motion

Q15. When a body falls freely, which quantity remains the same and which increases

Ans 1: During the free fall motion, acceleration is independent of the mass of the body remains the same throughout the motion and velocity of the body increases continuously.

Q16. What is the thermo flask?

Ans 1: The thermo flask is a double walled glass vessel, that prevent heat to enter or leave the flask and maintain the temperature inside the flasm.

Q17. Where and why catalytic converter is to be used

Ans 1: New cars have catalytic converters, These devices convert some polluting gases.

Q18. Define stress with its unit

Ans 1: The force acting on unit area at the surface of the body is called stress

Ans 2: Formula Stree=F/a

Q19. Write two difference of Mass and Weight.

Ans 1: Mass: Mass of a body is the quantity of matter that it possesses.
It is a scalar quantity
It does not change by using the place
Mass is denoted by m.
Mass can be find by
formula m=f/m
Unit of mass is kilogram (kg)

Ans 2: Weight Weigh of a body is due to the force of gravity acted on it Weight of a body is equal to the force with which Earth attracts it.
It is a vector quantity
It depends upon value of g So it changes place to place with respect to height
Weight is denoted by W
Weight can be find by formula
w=mg
Unit of weight is newton (nm)

Q20. Give purposes of solar panels

Ans 1: Solar panels can provide power to telephone booths, light house, scientific research centres and satellites.