# CONTENT

**1097.** What type of force acts on a car moving on a circular curved path - **Centripetal force**

**1098.** On what principle does the washing machine work – **decentralization**

**1099.** Under what conditions will the maximum weight of an object be on- **the earth's pole**

**1100.** What is an air pressure measuring instrument called – **barometer**

**1101.** Why the weightlessness is felt when the spacecraft revolves around the Earth - **zero gravity**

**1102.** What principle does the segmental Libra work on - **the Hook rule**

**1103.** Why the Earth has its own atmosphere - **due to the force of gravity**

**1104.** What is the stopping force of a vehicle when applying a brake - **friction force**

**1105.** Sea water has more salts than rain water because - **rivers carry salts from the earth and pour it into the sea.**

**1106.** What is the stored heat energy stored during the change of heat in a substance - **kinetic energy**

**1107.** photon whose basic unit is- **Light**

**1108.** Due to which huge amount of energy is released in the explosion of a nuclear bomb- **the change of neutrons to protons**

**1109.** Which has maximum mass- **neutron**

**1110.** What is the example of the motion of the body around a circular path - **uniform vein, variable acceleration**

**1111.** What principle does the rocket work on - **Newton's Third Law**

**1112.** What causes clouds to float in the atmosphere - **low density**

**1113.** Why the speeding wheel is an important part of the steam engine - **helps the engine to keep the speed the same.**

**1114.** What is the freezing point of fresh water - **0'C**

**1115.** In which a real gas can act as an ideal gas - **low pressure and high temperature**

**1116.** What is the example of the speed of the wheels of a bullock cart while walking on the road - **Transitional and rotational speed**

**1117.** With whose help the purity of a metal can be determined - **Archimedes' principle**

**1118.** When two objects are placed at some distance, they feel the force of gravity against each other. If the distance between them is doubled from the first distance, then the force will be - **1/4 F**

**1119.** Ineffective wave is formed by - **two waves of the same shape, moving in opposite direction**

**1120.** The minimum number of forces to keep a particle in equilibrium is – **2**

**1121.** SHM It should be necessary in the system showing - **both elasticity and inertia**

**1122.** To easily open a door, its handle should be placed- **The handle should be at a greater distance than the occupation to open the door easily.**

# 9. Table of SI Units

**SI Basic units:**

| Quantity | Unit | Symbol |
|---|---|---|
| **Length** | meter | **m** |
| **Mass** | kilogram | **kg** |
| **Time** | second | **s** |
| **Electric current** | ampere | **A** |
| **Temperature** | kelvin | **K** |
| **Quantity of substance** | mole | **mol** |
| **Luminosity** | candle | **cd** |

**SI derived units:**

| Derived quantity | Name | Symbol |
|---|---|---|
| **area** | square meter | **$m^2$** |
| **volume** | cubic meter | **$m^3$** |
| **speed, velocity** | meter per second | **m/s** |
| **acceleration** | meter per second squared | **$m/s^2$** |
| **wave number** | reciprocal meter | **$m^{-1}$** |
| **mass density** | kilogram per cubic meter | **$kg/m^3$** |
| **specific volume** | cubic meter per kilogram | **$m^3/kg$** |
| **current density** | ampere per square meter | **$A/m^2$** |
| **magnetic field strength** | ampere per meter | **A/m** |
| **amount-of-substance concentration** | mole per cubic meter | **$mol/m^3$** |
| **luminance** | candela per square meter | **$cd/m^2$** |
| **mass fraction** | kilogram per kilogram, which may be represented by the number 1 | **kg/kg = 1** |

**SI derived units with special names and symbols:**

| Derived quantity | Name | Symbol | Expression in terms of other SI units | Expression in terms of SI base units |
|---|---|---|---|---|
| **Plane angle** | radian | **rad** | - | **$m \cdot m^{-1} = 1$** |
| **solid angle** | steradian | **sr** | - | **$m^2 \cdot m^{-2} = 1$** |
| **frequency** | hertz | **Hz** | - | **$s^{-1}$** |
| **force** | newton | **N** | - | **$m \cdot kg \cdot s^{-2}$** |
| **pressure, stress** | pascal | **Pa** | $N/m^2$ | **$m^{-1} \cdot kg \cdot s^{-2}$** |
| **energy, work, quantity of heat** | joule | **J** | $N \cdot m$ | **$m^2 \cdot kg \cdot s^{-2}$** |
| **power, radiant flux** | watt | **W** | J/s | **$m^2 \cdot kg \cdot s^{-3}$** |

| | |
|---|---|
| **Video Games** | Ralph Baer |
| **Steam engine** | Thomas Newcomen |
| **Railway Engine** | George Stephenson |
| **Jet Engine** | Frank Whittle |
| **Seismograph** | John Milne |
| **Electric Generator** | Michael Faraday |
| **Television** | John Logie Baird |
| **Refrigerator** | William Cullen (later Oliver Evans) |
| **Carburetor** | Luigi De Cristoforis & Enrico Bernardi |
| **Air Brake** | George Westinghouse |
| **Atomic bomb** | Robert Oppenheimer, Edward Teller et al |
| **Air conditioner** | Willis Carrier |
| **Machine Gun** | Sir Hiram Maxim |
| **Radar** | Sir Robert Alexander Watson-Watt |
| **Submarine** | Cornelius Drebbel (later) David Bushnell |
| **First military submarine** | Yefim Nikonov |
| **Transistor** | John Bardeen, Walter Brattain, and William Shockley |
| **Galvanometer** | Johann Schweigger |
| **Laser** | Theodore H. Maiman (first demonstrated) |
| **Neon lamp** | Georges Claude |
| **Rocket Engine** | Robert Goddard |
| **Typewriter** | Christopher Latham Sholes |

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