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**Paper :** Basic Lab Calculation

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**Q1: Enlist basic and derived properties of SI System along with their unit and symbols.**

**Ans:** System Of Measurement

Magnitude dimention=>Unit of measurement

**BASIC:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Property** | **Symbol** | **Unit** | **Unit Symbol** |
| Mass | M,m | Kilogram | Kg |
| Length | L,l | meter | M |
| Time | T,t | Second | S |
| Electric current | I | Amper | A |
| Temperature | T | Kelvin | K |
| Luminous intensity | T,J | Candle | Cd |
| Amount of substance | N,n | mole | mole |

**DERIVED:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Propety** | **Symbol** | **Unit** | **Unit Symbol** |
| Volume | V | Cubic meter | m3,L |
| Area | A | Sequamate | m2 |
| Mass density | Δ | Kilogram/Liter pascal | Kg/L |
| Pressure | P | pascal | Pa/m2 |
| Mass rate | Δm/ Δt | Kilogram per secound | Kg/s |

**Q2: Write Symbol, value, Power of 10 and name of the following SI prefix.**

**i. Deca ii. Kilo iii. Centi iv. Giga v. Nano vi. Pico**

**Ans:**

|  |  |  |
| --- | --- | --- |
| **Symbol** | **Value** | **Power** |
| Deca | D | 101 |
| Kilo | K | 103 |
| Centi | C | 10-2 |
| Giga | G | 109 |
| Nano | N | 10-9 |
| Pico | P | 10-2 |

**Q3: Write down Symbols of the following.**

**i. Beta ii. Gamma iii. Pi iv.Epsilon v. omega VI. Infinity**

**Ans:**

|  |  |  |
| --- | --- | --- |
| **Letter** | **Symbol** | **Meaning** |
| Beta | Β,β | Second, Secondary, false-negative rate |
| Gamma | Γ, γ | Third, tertiary, gamma rays, photon |
| Pi | Π, π | Type of covalent bond, circumference to diameter ratio |
| Epsilon | Ε, ε | Molar absorpitivity, random error |
| Omega | Ω, ω | Electrical resistance (SI units) |
| Infinity | ∞ | Divide |

**THE END**