|  |  |  |
| --- | --- | --- |
| Basic physical quantity | SI unit | Symbol  |
| Electric current | ***Ampere***  | A  |
| Amount of substance | ***Mole***  | mol |
| Thermodynamic temperature | ***Kelvin***  | ***k*** |

22.

1. State which gas diffused faster. (1mk)
* ***Ammonia gas***
1. Explain how the rate of diffusion depends on the density of a gas. (2mks)
* ***The denser the heavier the particles and hence the slower the gas.***
1. Explain the effect of performing the experiment above at a higher temperature. (2mks)
* ***The rate at which Ammonia gas travels towards B will be higher hence less time taken to form the white deposit.***
1. Convert the following; (3mks)
	1. 298K to oC.

 **298- 273 =250C**

* 1. -100C to K

 -**10 + 273 = 263K**

* 1. 00C to K

 **0 + 273= 273K**