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SJ. N. PUBLIC SCHOOL. Date 20/5/20
Lockdown Homework. Class - 9
Sub: - Science

Topic: - Matter in our Surroundings. Teacher M. Rafeequl.
mob n. 9554404852

Bose - Einstein Condensate: →

Indian physicist

Satyendra Nath Bose made a study regarding the fifth state of matter. Based on his study Albert Einstein predicted a fifth state of matter called the Bose - Einstein Condensate.

The Bose - Einstein or BEC is formed by cooling a gas of extremely low density to super low temperature.

Some Important measurements: →

- (i) The SI unit of mass is Kilogram - Kg.
- (ii) The SI unit of Volume is Cubic meter = m^3
The Common Unit of measuring Volume is litre (L) Such that $1L = 1dm^3$
 $1L = 1000ml$, $1ml = 1cm^3$.
- (iii) Kelvin is the SI unit of Temperature.
 $0^\circ C = 273 K$.
- (iv) Atmosphere (atm) is a unit of measuring pressure exerted by a gas. The unit of pressure is pascal (Pa) $1atm = 101325 Pa$.
The pressure of air in atmosphere is called atmospheric pressure.

Q(1) Write a note on Bose-Einstein Condensate and Plasma.

Q(2) What is SI unit of mass, Volume, Temperature, Pressure.