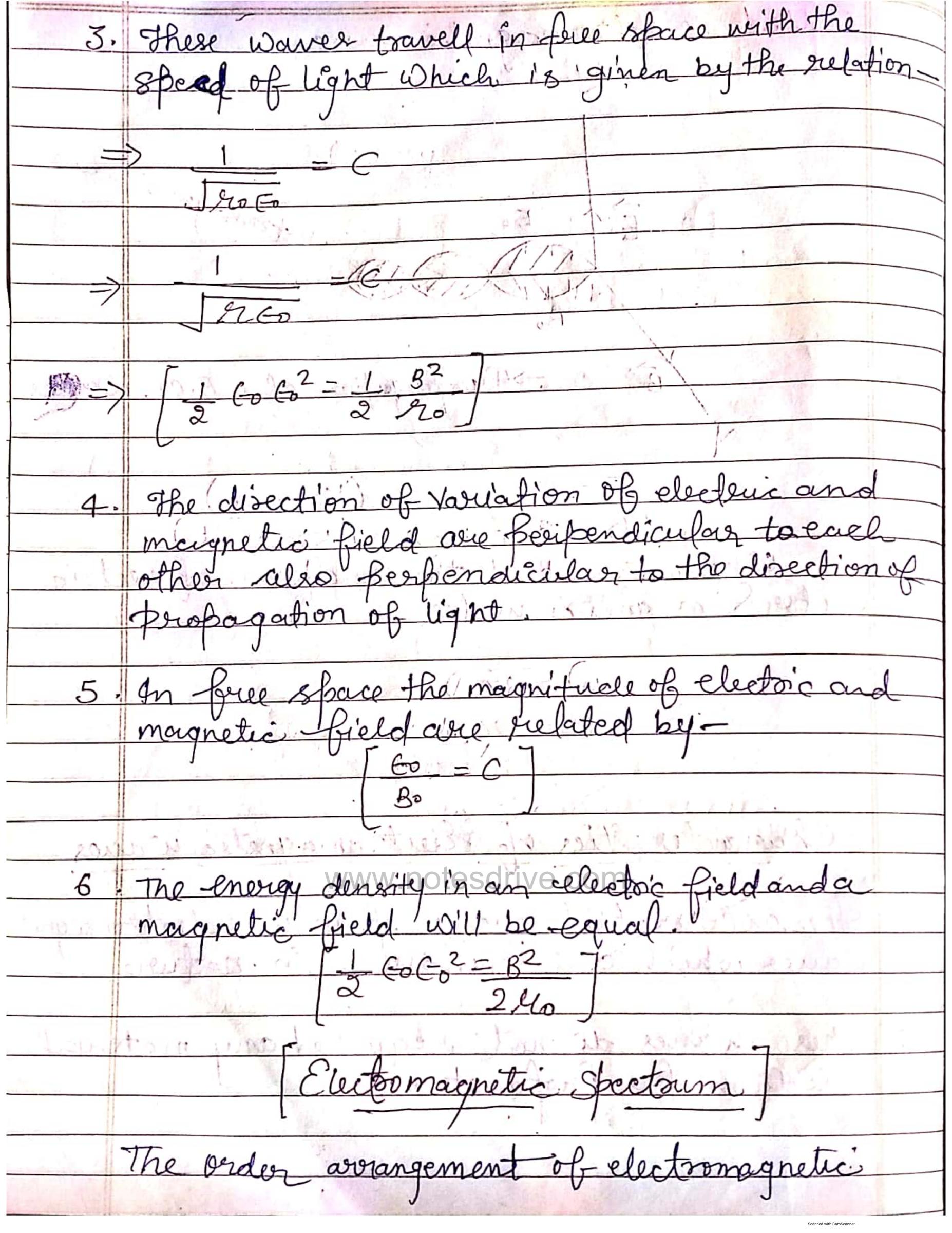
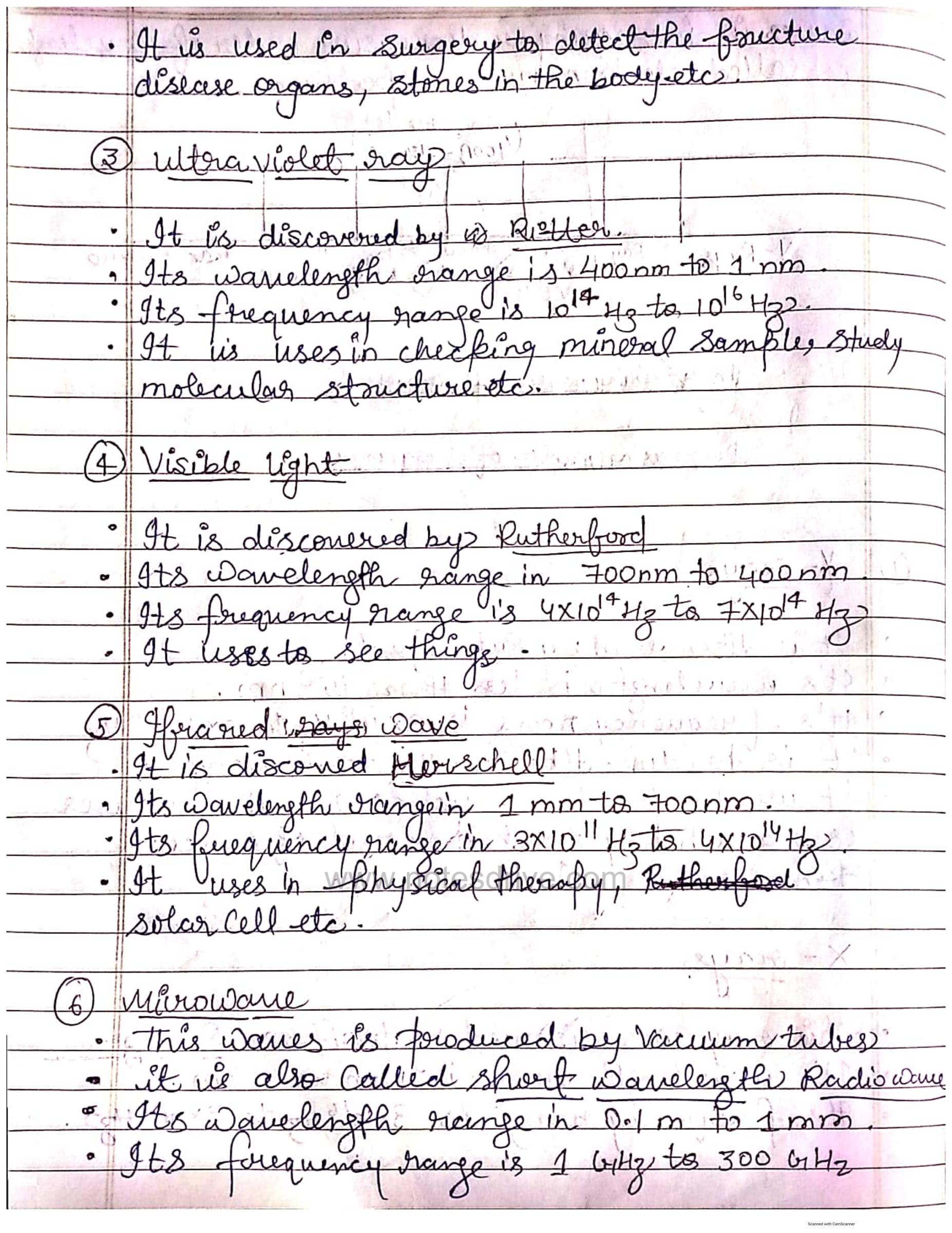


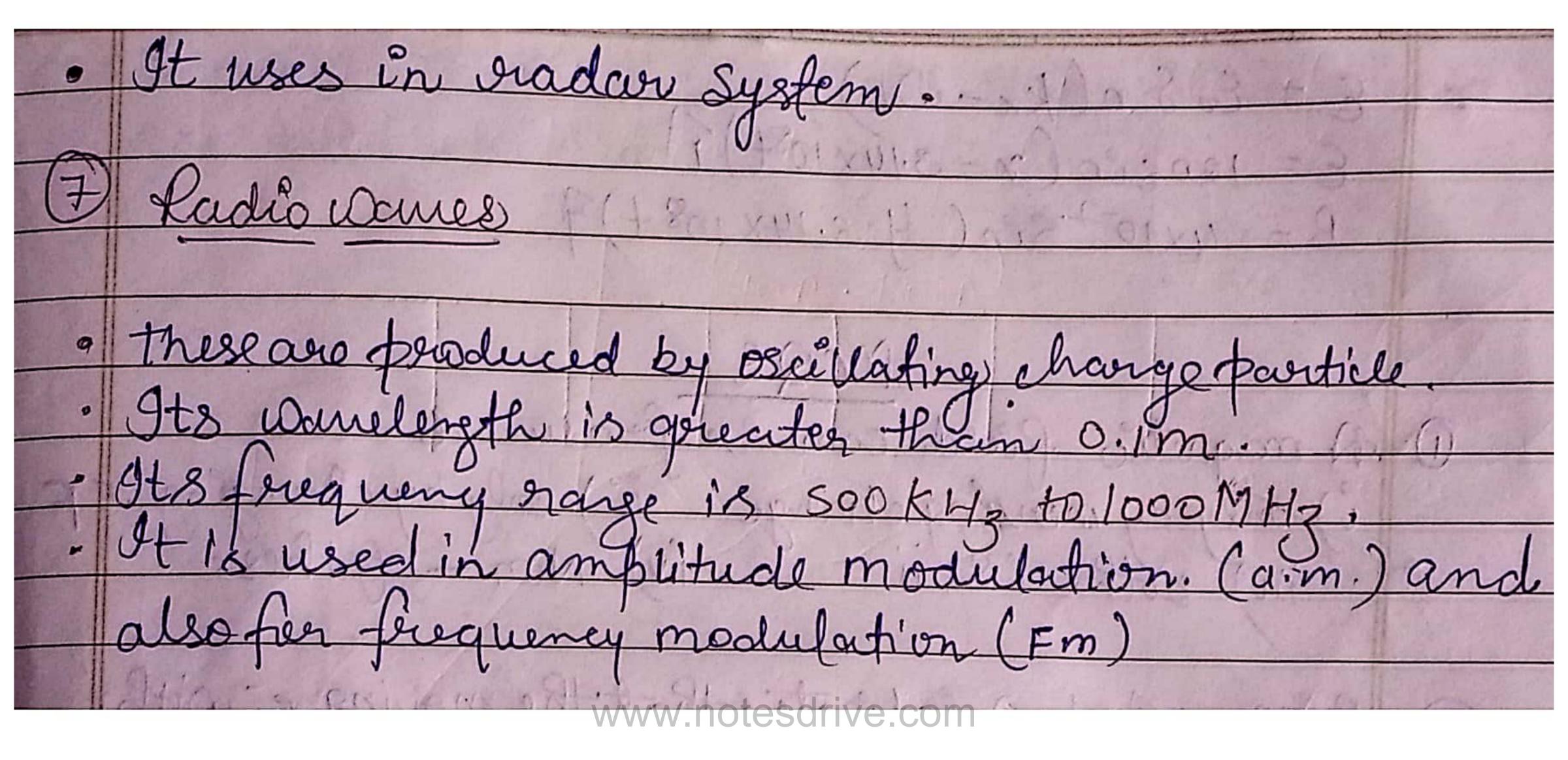
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1	Its wavelength vange is Inm to 10-3 m
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	J. J

Scanned with CamScanner





Different types of electromagnetic waves

Type	Wavelength range	Frequency range (Hz)	Production	Detection
) Radio wave	> 0.1 m	10 ⁴ to 10 ⁹	Rapid acceleration and deceleration of electrons in aerials.	Receiver's aerials
Microwave	0.1 m to 1 mm	10 ⁹ to 10 ¹¹	Klystron valve or magnetron valve.	Point contact diodes
Infrared wave	1 mm to 700 nm	3×10 ¹¹ to 4×10 ¹⁴	Vibration of atoms and molecules.	Thermopile, Bolometer, infrared photographic film
Light)	700 nm to 400 nm	4×10 ¹⁴ to 8×10 ¹⁴	Electrons in atoms emit light when they move from one energy level to a lower energy level.	The eye, photocells, photographic film
Ultraviolet rays	400 nm to 1 nm	8×10 ¹⁴ to 8×10 ¹⁶	Inner shell electrons in atoms moving from one energy level to a lower level.	Photocells, photographic film
X-rays	1 nm to 10 ⁻³ nm	1×10^{16} to 3×10^{21}	X-ray tubes or inner shell electrons.	Photographic film Geiger tubes, ionisation chamber
γ-rays	<10 ⁻³ nm	5×10 ¹⁸ to 5×10 ²²	Radioactive decay of the nucleus	Photographic film, ionisation chamber