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Notes for B.Sc part 2nd., paper IV (A).

Question :- ~~(Ques)~~ Sulphur ko classify karke hue sachitko varnan karke ..?

Answer :- Sulfur :-  
Sulfur (in British English, sulphur) is a chemical element with the symbol S and atomic number 16. It is abundant, multivalent, and nonmetallic. Under normal conditions, sulfur atoms form cyclic octatomic molecules with a chemical formula S<sub>8</sub>. Elemental sulfur is a bright yellow, crystalline solid at room temperature.

Sulfur

Alternative name	sulphur (British spelling)
Appearance	lemon yellow layered microcrystals

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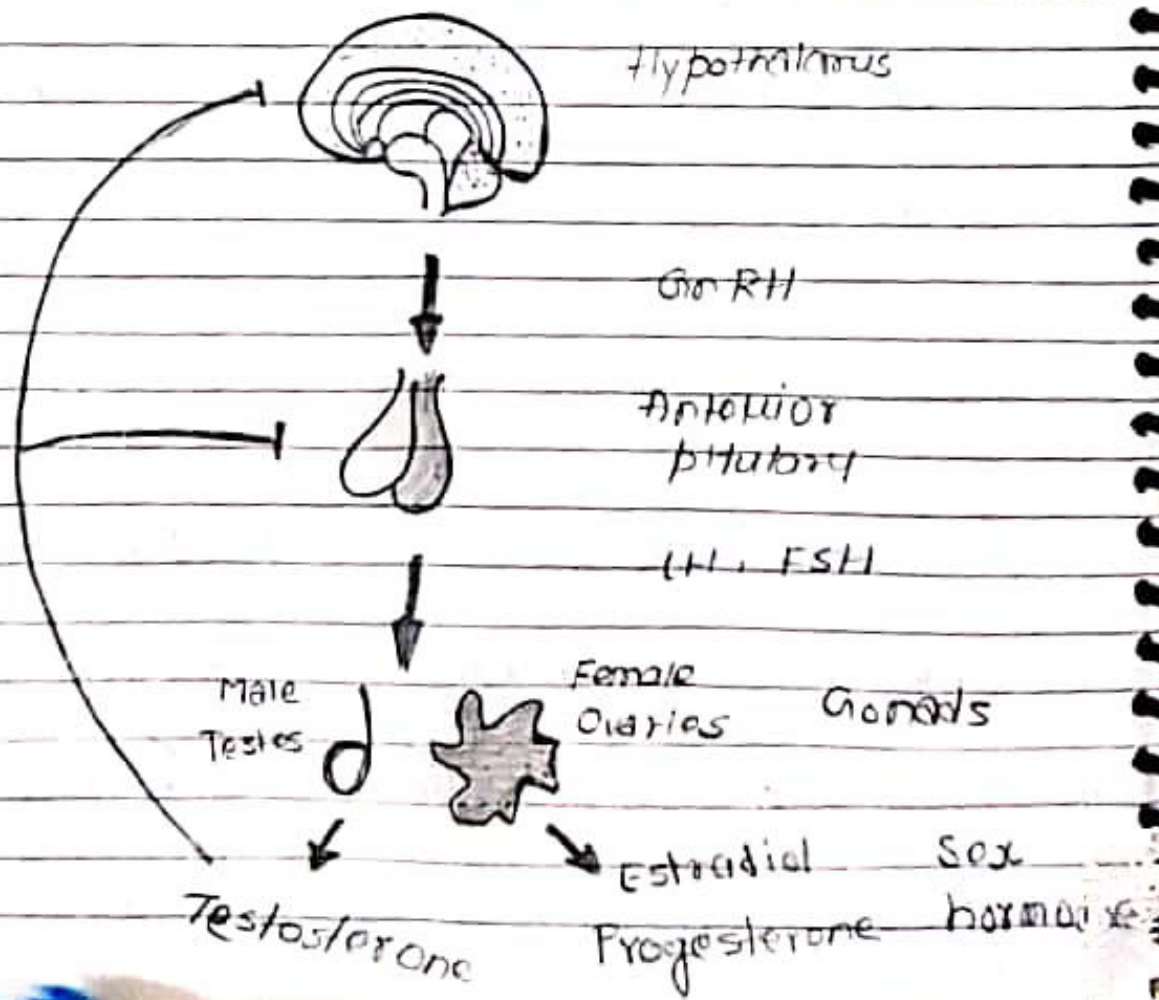
Atomic number (Z)	16
Group	group 16 (Chalco- -gens)
period	period 3
Block	p-block
Element category	Reactive nonmetal
Electron configuration	$(Ne) 3s^2 3p^4$
Electrons per shell	2, 8, 6

Physical properties

Phase at STP	Solid
Melting point	388.36 K (115.21 °C, 237.38 °F)
Boiling point	717.8 K (444.6 °C, 832.3 °F)
Critical point	1314 K, 20.7 MPa
Heat of Fusion	mono: 1.727 kJ/mol
Heat of vaporization	mono: 45 kJ/mol
Molar heat capacity	22.75 J/(mol·K)

Other properties

Natural occurrence	primordial
Crystal structure	orthorhombic
Thermal conductivity	0.205 W (m.k) (anisotropic)
Electrical resistivity	$2 \times 10^{15} \Omega.m$ (at 20 °C) (anisotropic)
Magnetic Ordering	diamagnetic.
Magnetic susceptibility	(a) - $15.5 \cdot 10^{-6}$ $cm^3/mole$ (298K)



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Sulfur is the tenth most common element by mass in the universe and the fifth most common on Earth. Though sometimes found in pure, native form, sulfur on Earth usually occurs as sulfide and sulfate minerals.

