

Handwritten Notes on D&F Block



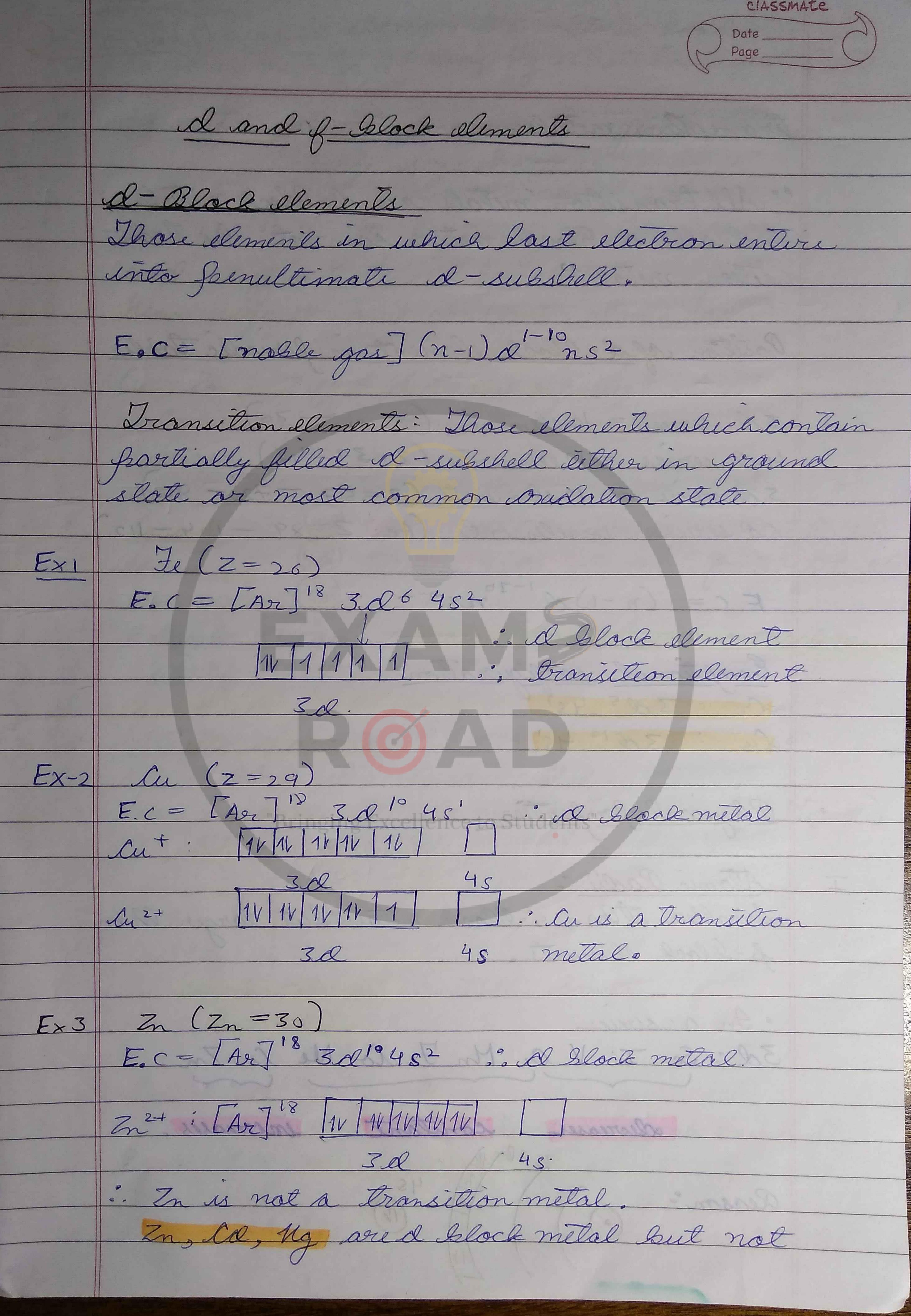








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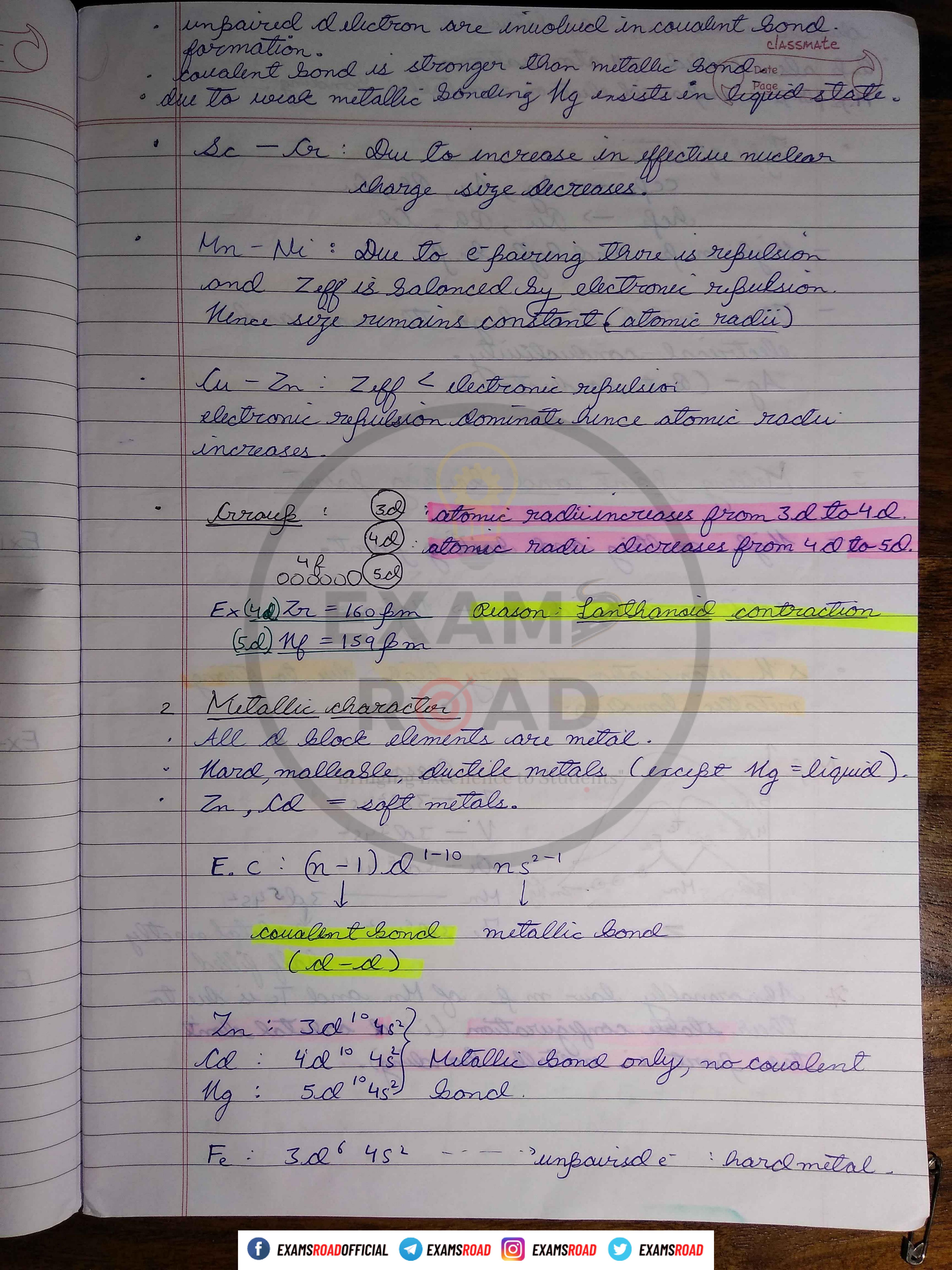


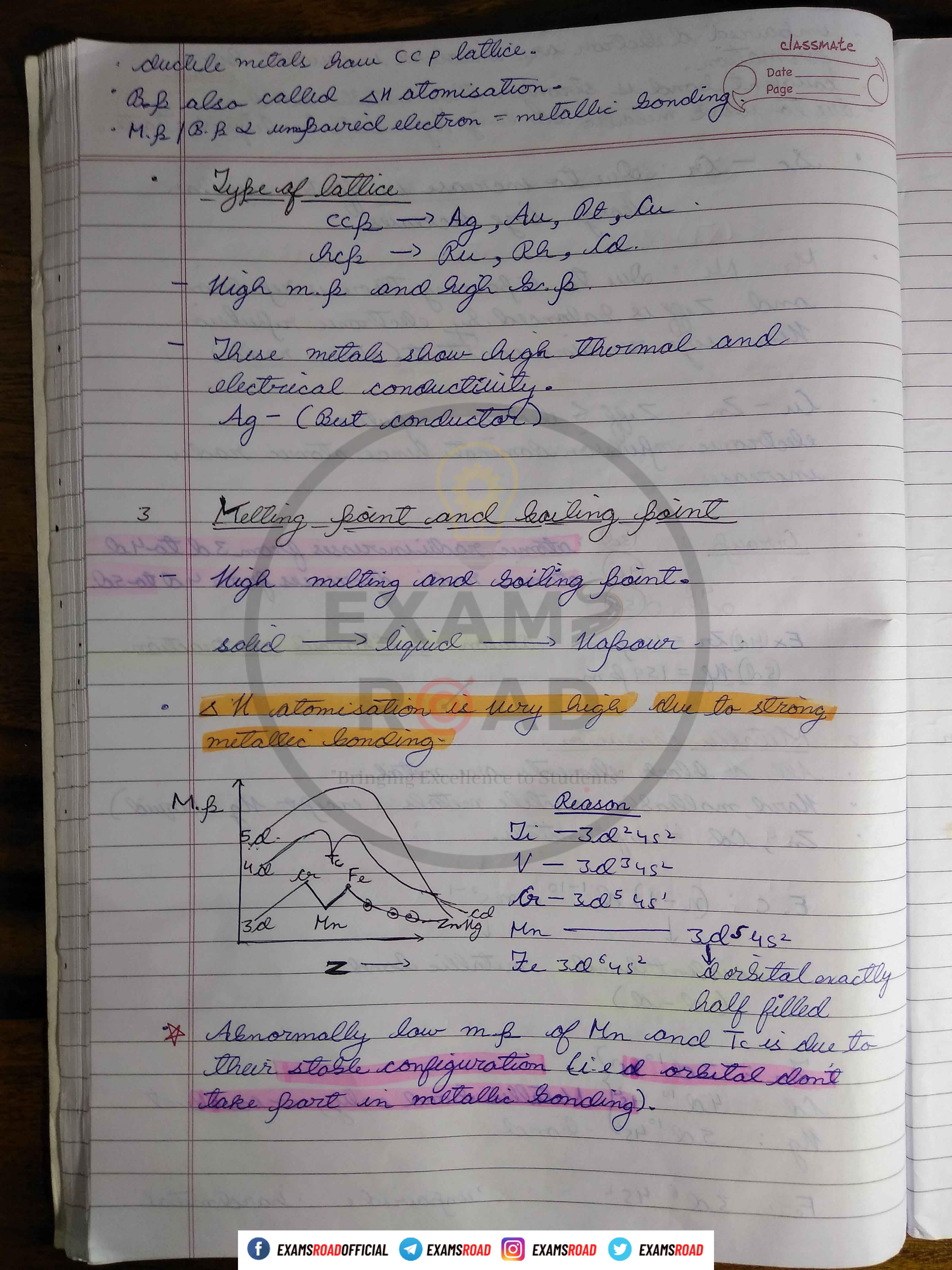












Wolume They have brigh density ;

lowest dinisty (Sc = 3.5g/cc)
highest density (In = 22.6g/cc)

· Series -> suith increasing atomic no dinsity
also increases (mid - way).

· Louisation energy

· Due to high Zeff and small size, d-block metals ære having high I.E.

· In a series I. E gradually increases due to increase in Zeff.

I.E., of In, Cd, Ug is very high (stable E.c)

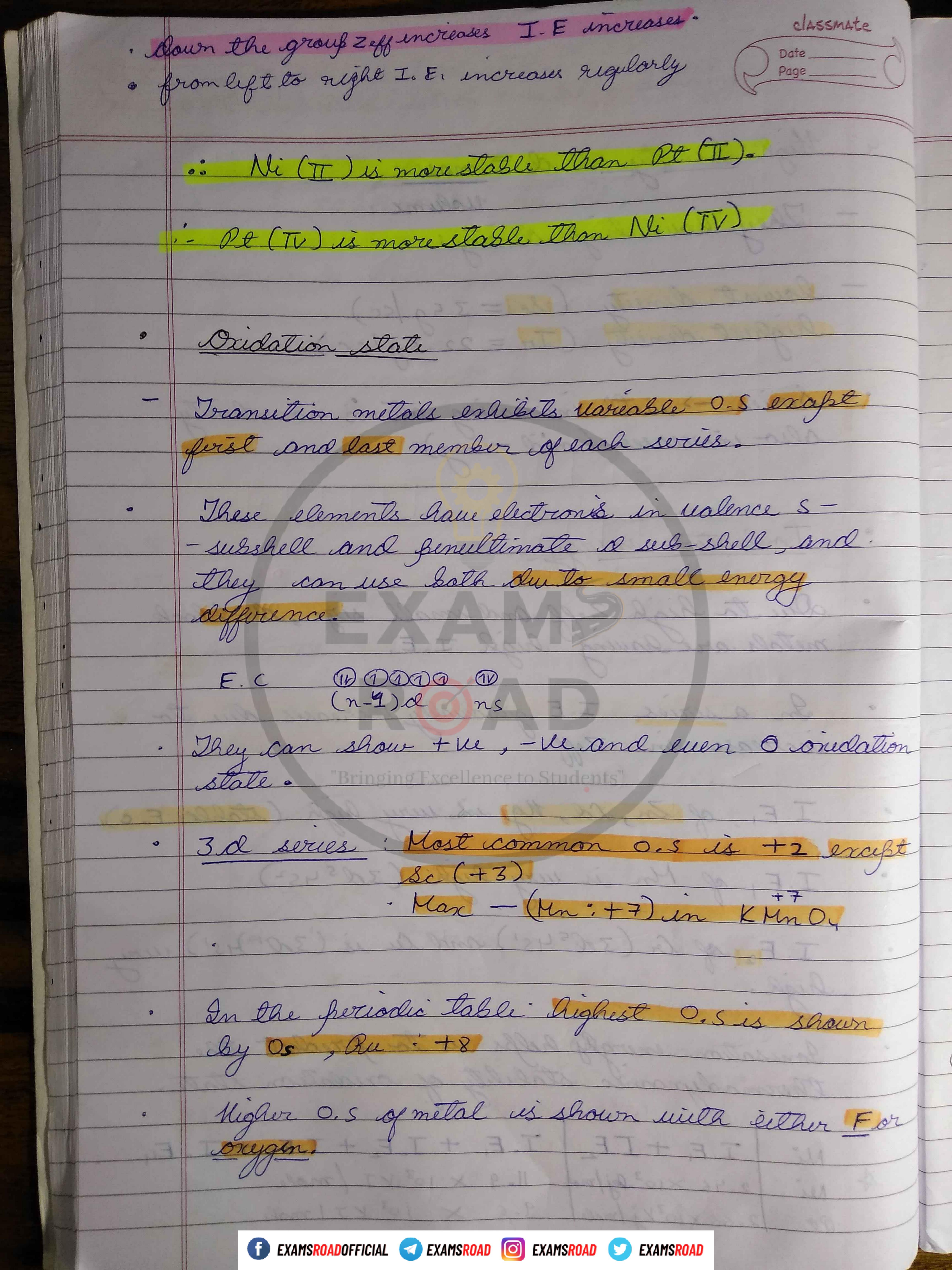
I.F., of Mn is very Righ (3d5452)

I. E. of Cr (3D 45') and Cu is (3D'45') way

Ionisation energly helps us to predict the Thormodynamic stability of oxidation state.

Hi] 2.46 × 103 kj/mole | 11.9 × 103 KJ/mole.

t | 2.66 × 103 kj/mole | 9.6 × 103 KJ/mole.



Mature of milal

In Nigher 0.5 = coualint nature Couver S = sonic nature.

Mn,07 coualint conta

Magnetic Properties

Most of the Transilion metal and Their compounds are paramagnetic.

Higher the number of unbavied electron Augher well be paramagnetism.

· µ = In(n+2) B.M n = no. of unboured electrons.

Compare the magnetic moment of Fe, Co, Ni Mi= (z=28)

Fo Das Nei

Which one is most magnetic? ason (II) In Son (III) Gr, (Soy) 2V = 3d 45° = 1e = 11(1+2) B.H = 3d1° 45° = 0e-11 = J3(3+2) B. M

