$$J-Mains$$

$$01)  $h = \frac{9}{252} - \frac{361}{2} \frac{pm}{128} = 128 pm$$$

(02) Radius Ratio = 
$$\frac{97}{9}$$
 =  $\frac{99}{196}$  = 0.69  
lies in Range 0.414-0.732 octahedral void

(03) 
$$9^{+}+9^{-}=\frac{139}{2}=9$$
  $9^{+}=\frac{13\times390-180}{2}=158$  pm

(15) with increase in temperature, Resistance of metals increases, hence conductivity decreases.

(06)  $9 = \sqrt{39} = 1.73 \times 351 = 152 pm.$ 

Atoms of A funit cell = 1 atoms of B funit cell = 4 Formula = ABy.

void space in HCP mode of Packing 15 26%.

 $\frac{09}{52} = \frac{9 + 4 \times 0.14}{1.4} = 0.4 \text{ nm}.$ 

Aug Oxidation Stake  $+3x+2(1-x)=\frac{200}{98}$ 7. x=4.08%

Atoms lunit cell = 4.

OHV per atom = 1.

atb\$C and B= Y= 90\$ \$ \alpha.

halides is due to F- centres.

1 B missing, net B | unit cell = 3/8-1/2 = 5 \$/2

Fermula A2B5

015) 9cs++9a-= 53 9/2

(016),  $9 = \sqrt{\frac{39}{4}} = 1.73 \times 4.29 = 1.86 Ao.$ 

017) Gozis metallic and ferromagnetic.

Closest approach blw atoms= 529 = 9/52

Frenkel defect.

(20) Cs Cl form bytal having Cst in Which void

and Cot ion at every a corner.

(21) Antiferromagnetic substance have equal and

opposite magnetic domains. AUTUAL