

By. Er. Dharmendra Sir

7974073108, 9584873492

DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

D AND F BLOCK ELEMENTS

SESSION -2024-25

CLASS - 12th

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Time : 1 hr d and f block Elements :- mm'

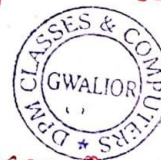
Q. 1. Transition Elements show melting points.
Why ?

Q. 2. Out of Cu_2Cl_2 and CuCl_2 , which is more stable and why ?



Q. 3. ~~Is~~ Ionisation Enthalpies of Ce, Pr and Nd are higher than Tb, Pa and U. Why ?

Q. 4. Although Zr belongs to 4d and Hf belongs to 5d transition series but it is quite difficult to separate them, why ?



Q. 5. Explain why does colour of KMnO_4 disappear when oxalic acid is added to its solution in acidic medium?

Q. 6. The second and third rows of transition elements resemble each other much more than they resemble the first row. Explain why ?

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Q.7. E° of Cu is +0.34V while that of Zn is -0.76V. Explain.

Q.8. The halides of transition elements become more covalent with increasing oxidation state of the metal. Why?



Q.9. Reactivity of transition elements decreases almost regularly from Sc to Cu. Explain.

Q.10. Mention the types of compounds formed when small atoms like H, C and N get trapped inside the crystal lattice of transition metals. Also give physical and chemical characteristics of these compounds.



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