## ❖ Problems

Q 1. Define isopoly and heteropoly metallates.

Q 2. Explain the condensation process involved in the formation of paramolybdates.

Q 3. Draw and discuss the structure of paramolybdate anion, $Mo_7O_{24}^{6-}$, in detail.

Q 4. Draw and discuss the structure of octamolybdate anion.

Q 5. Write down the reaction scheme giving the tungstic acid from normal tungstate with special reference to paramolybdate A.

Q 6. Explain the structure of metatungstate, $[H_2W_{12}O_{40}]^{6-}$, in detail.

Q 7. How can a Keggin structure with $T_d$ symmetry be changed into a $C_{3v}$ isomer?

Q 8. Draw and explain the structure of $[NiMo_9O_{32}]^{6-}$ and $[MnMo_9O_{32}]^{6-}$.

Q 9. Why do the isopoly and heteropoly acids of molybdenum and tungsten prefer edge-sharing over the corner connection? Also, explain the highly unusual face sharing.

Q 10. Write down the general formula for 1:12 and 2:18 heteropoly anions.

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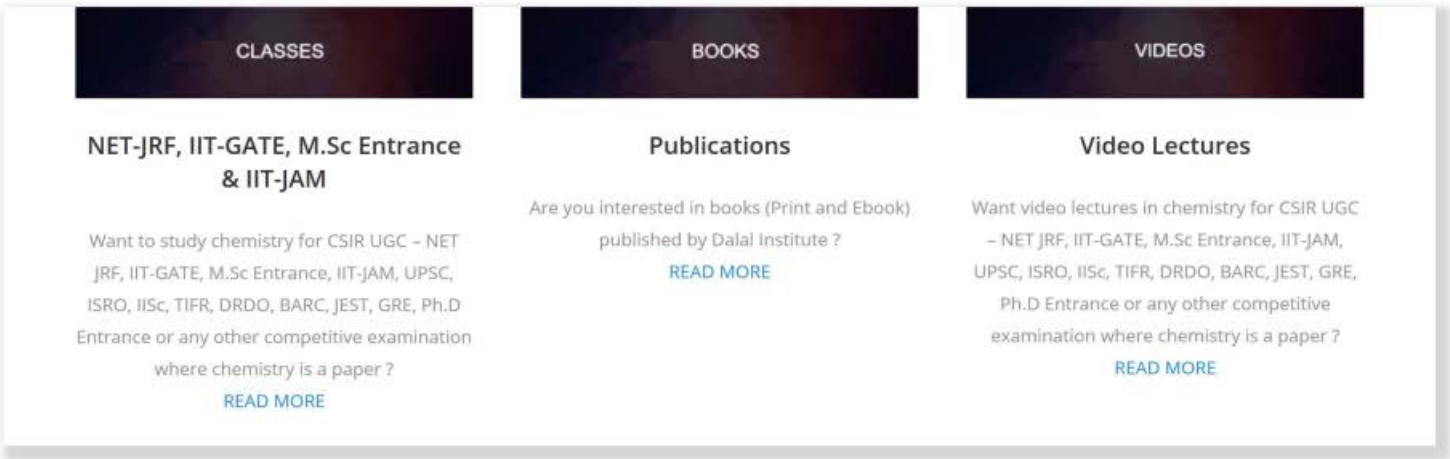


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