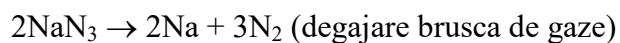
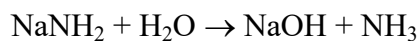
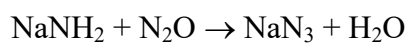
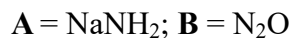
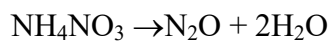
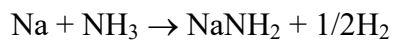
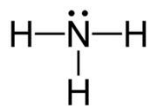
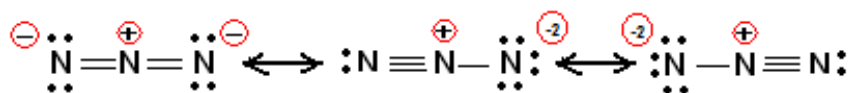
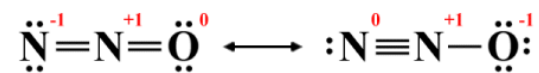


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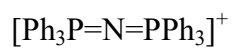
a): 2,5 puncte



b): 3,5 puncte

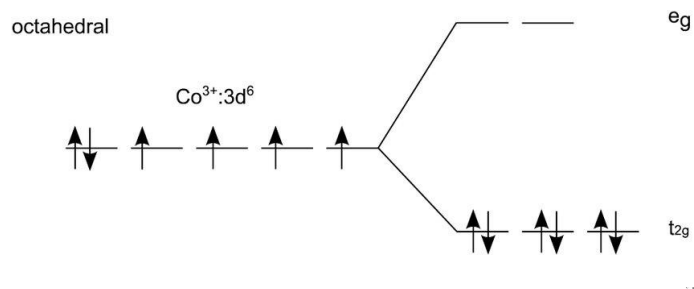


c) 1 punct



d) 2 puncte

$[\text{Co}(\text{NH}_3)_6]_2[\text{Zn}(\text{NO}_3)_4]_3$; Ionul complex $[\text{Co}^{\text{III}}(\text{NH}_3)_6]^{3+}$ este diamagnetic; $\text{Zn}(\text{II})$: d^{10} , diamagnetic.



e) 2 puncte

$x = 4$; $y = 4$ (regula celor 18 electroni)

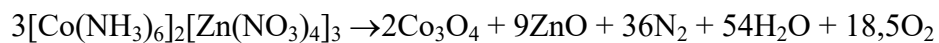
f) 3 puncte

-2 (ligand NO^+); -1 (ligand NO neutru)

g): 4 puncte

In compusul I: Mn; in compusul II: Co; Ionul de $\text{Mn}(\text{II})$ (d^5) nu are preferință stereochimică!

h) 2 puncte



i) nu se punctează!