$15x^{3}y^{5}z^{4}(5yz^{2} - 3xy^{2} + 2xz^{2}) = 75x^{3}y^{6}z^{6} - 45x^{4}y^{7}z^{4} + 75x^{3}y^{4}z^{2} - 45x^{2}y^{3}z^{4} + 30x^{2}y^{5}$ so the factorization in $30x^{4}y^{5}z^{6} \neq$ item B is not correct.