-	PdO is used as a hydrogenation catalyst an structure shown below. NiO has a variety structure. The large spheres represent the orepresent palladium or nickel atoms. $\int \int \partial f df d$	of uses and crystallizes with the rocksalt oxygen atoms and the smaller spheres 	Marks 8
What is the coordination number about each metal atom?			
	Pd:	Ni:	
The radius of the Pd ²⁺ ion is 86 pm, that of the Ni ²⁺ ion is 69 pm. Give a reason why the larger ion has a smaller coordination number.			
Does either structure contain a close-packed arrangement of O ^{2–} ions?			
	PdO: YES / NO	NiO: YES / NO	
If YES, indicate the layers on the unit cell(s) above.			