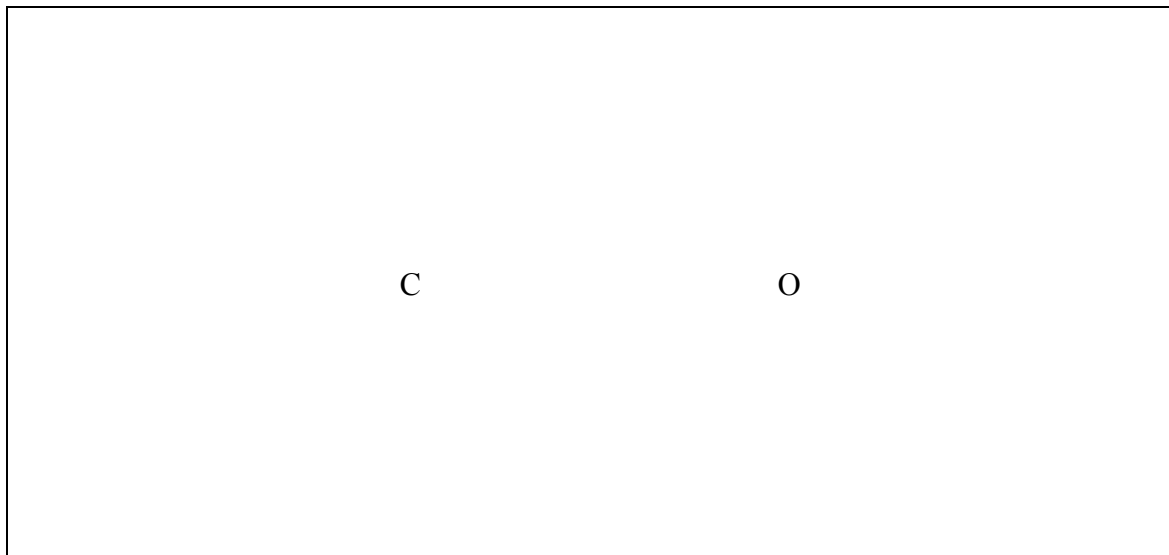|	Marks
• Carbon monoxide is a poisonous gas that may be obtained from incomplete combustion. Draw the Lewis structure of carbon monoxide and add the labels *lone pair, σ-bond, π-bond* as appropriate.	**5**

On the atoms below, draw and label the orbitals (atomic and/or hybridised) that give rise to the bonds and lone pairs on carbon monoxide and clearly show which orbitals overlap with each other and the type of bond that results.

C   O

THE REMAINDER OF THIS PAGE IS FOR ROUGH WORKING ONLY.