

- What are the requirements for a molecule to be aromatic? Give one example of an aromatic heterocycle.

**The molecule must be cyclic. The ring system must have a conjugated  $\pi$  bond system. The number of electrons in the  $\pi$  bond system must be  $4n+2$  where  $n$ =integer. All atoms in the ring system must be  $sp^2$  hybridised.**

**Examples of heterocyclic heterocycles include:**

