

MARK SCHEME:

- 1 important in contributing to 3-D structure of molecule / AW ;
- 2 many hydrogen bonds so, gives stability / strands not easily separated / long lasting ;
AW
- 3 (individual) hydrogen bonds (more) easily broken (than covalent bonds) ; **A**
hydrogen bonds weak / hydrogen bonds can be broken

consequence
- 4 (so strands can be separated) for (DNA) replication ; **A** description
- 5 (so strands can be separated) for (DNA) transcription ; **A** description
- 6 hydrogen bonds only form between, specific bases / named base pairs, so, few
mistakes / faithful replication / AW ;
- 7 *idea that* hydrogen bonds can easily re-form (without chemical reaction) ; [max 4]