	R	r
R	RR	Rr
r	Rr	rr

Q12. Two hybrid flowers are crossed together. Determine:

(i) the percentage of offsprings showing the dominant feature. 3/4 ; 75%

(ii) the percentage of offsprings showing the recessive feature. 1/4 ; 25%

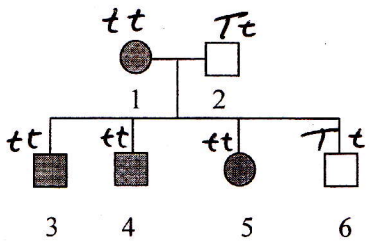
Q13. List the bases that make up the 'rungs' on DNA. Indicate which bases go together.

A,T C,G

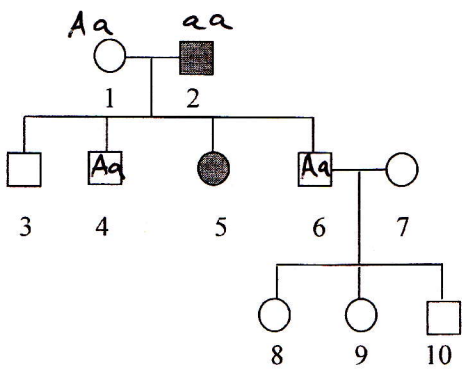
Q14. An extended family has mapped their ability to roll their tongue using a pedigree.

(i) Write down what type of inheritance does the pedigree show. dominant / recessive

(ii) if T stands for tongue-rollers and t stands for non-rollers, write down the genotypes of all individuals in the pedigree.



Q15. An albino male is crossed with a normal coloured female. Albinism is a recessive condition. **A** stands for normal pigmentation, and **a** stands for albinism.



ii

	A	a
a	Aa	aa
a	Aa	aa

iii

	A	A
A	AA	AA
a	Aa	Aa

(i) write the genotype of individuals 1, 2 and 4.

(ii) what is the probability the individuals 1 and2 will have albino offsprings? 50%

(iii) a homozygous normal individual 7 is mated with individual 6. List possible genotypes of their offsprings. AA and Aa

(iv) determine the % of the offsprings from couple 6 and 7 who carry the **a** gene. 50%