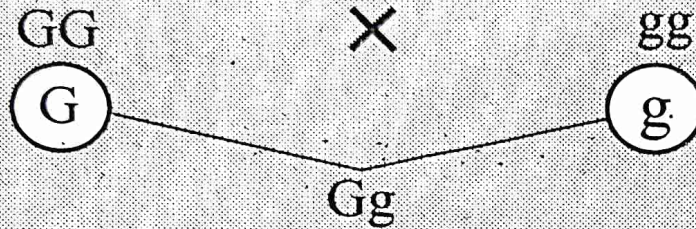


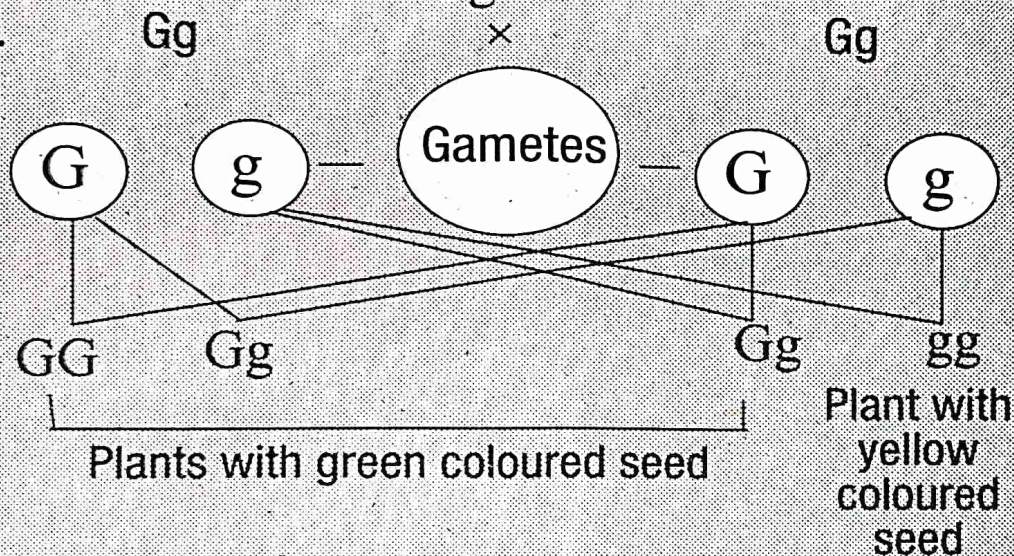
LET US ASSESS - ANSWERS

1. b. Thymine
2. • mRNA is formed. • mRNA reaches ribosomes.
• Amino acids are carried to the ribosomes.
• Protein is synthesised by adding amino acids.

3. a.



b.



4.

- ❖ As a result of crossing over, part of a DNA crosses over to become the part of another DNA, this causes a difference in the distribution of genes. When these chromosomes are transferred to the next generation, it causes the expression of new characters in offsprings.
- ❖ **Fertilization** : When gametes undergo fusion, the combination of alleles changes. This causes the expression of characteristics in offspring that are different from parents.
- ❖ A sudden heritable change in the genetic constitution of an organism is called mutation. Mutation lead to variations in characters.
Defects in the duplication of DNA, radiations and due to certain chemicals are the causes of mutation.