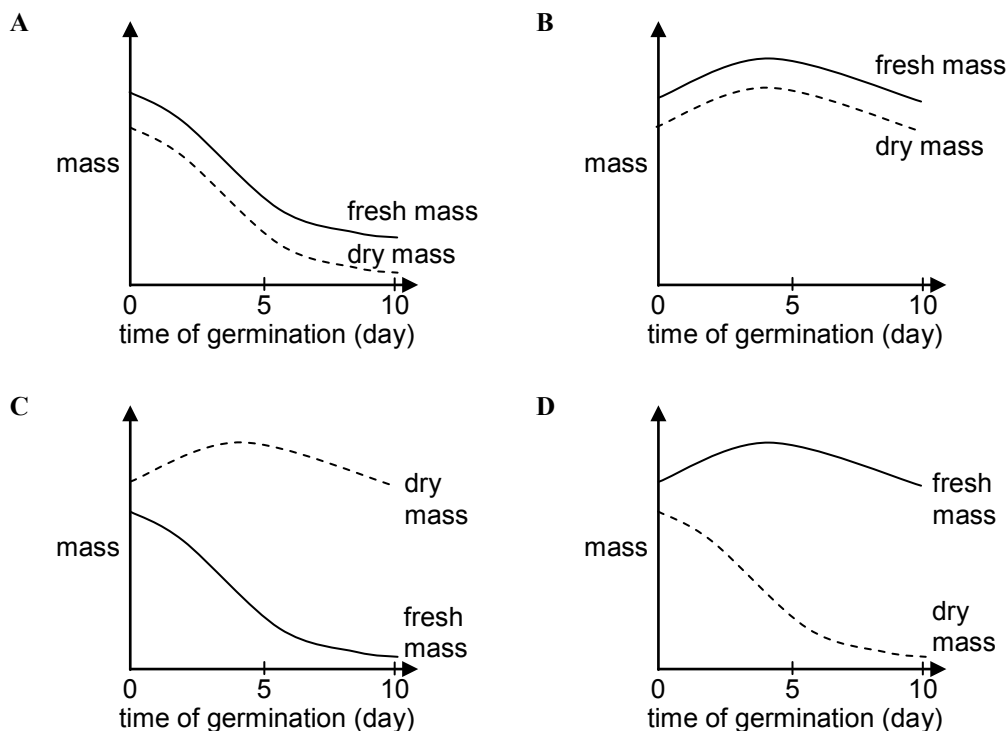
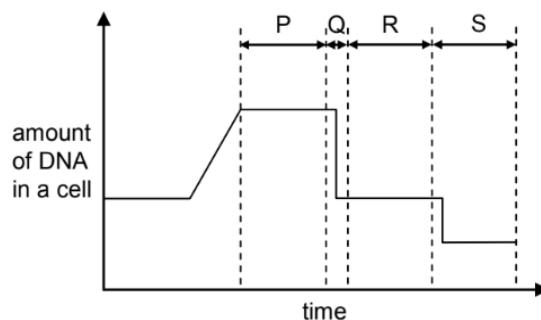


6 Which of the following graphs shows the changes in the dry mass and fresh mass of the cotyledon during the first 10 days of seed germination?



D

7 The graph below shows the change in the amount of DNA in a cell which is undergoing a type of cell division.

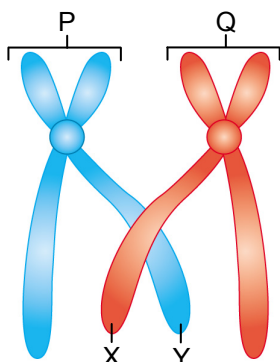


Which of the following descriptions of the cell in different periods of time is correct?

Period	Description
A P	DNA replicates.
B Q	Sister chromatids of chromosomes separate.
C R	Exchange of genetic material between non-sister chromatids of homologous chromosomes may occur.
D S	Cytoplasm divides to form four genetically different daughter cells.

D

- 8 The diagram below shows crossing over occurring between chromatids of two chromosomes in a cell which is undergoing meiosis.



Which of the following statements about this process is/are correct?

- (1) P and Q are a pair of homologous chromosomes.
- (2) X and Y are sister chromatids.
- (3) This process may occur at prophase I or prophase II.

- A** (1) only
- B** (3) only
- C** (1) and (2) only
- D** (1) and (3) only

A