

Cambridge International AS & A Level

BIOLOGY (9700) P1

TOPIC WISE QUESTIONS + ANSWERS | COMPLETE SYLLABUS



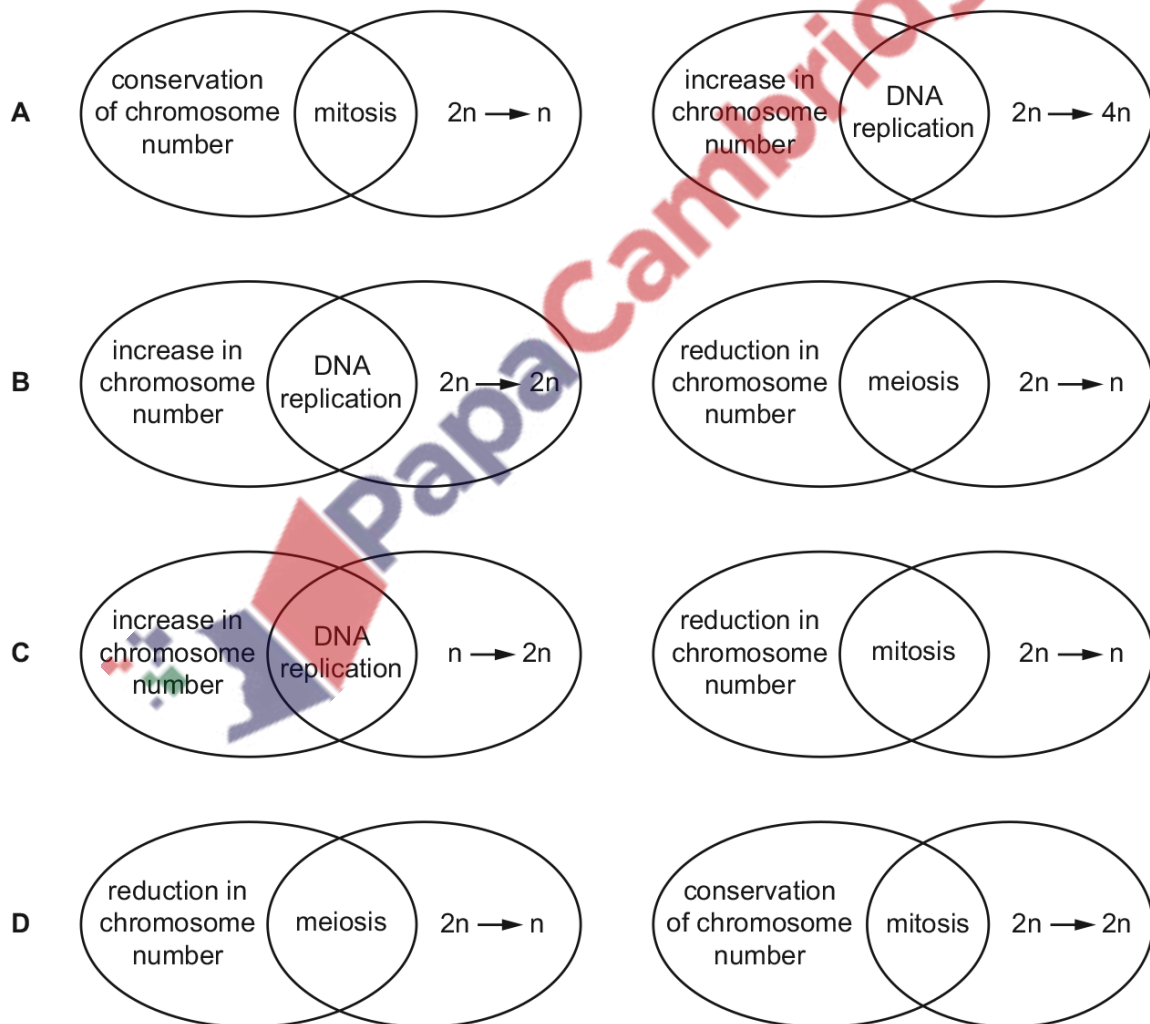
Chapter 14

Inherited change

14.1 Passage of information from parent to offspring

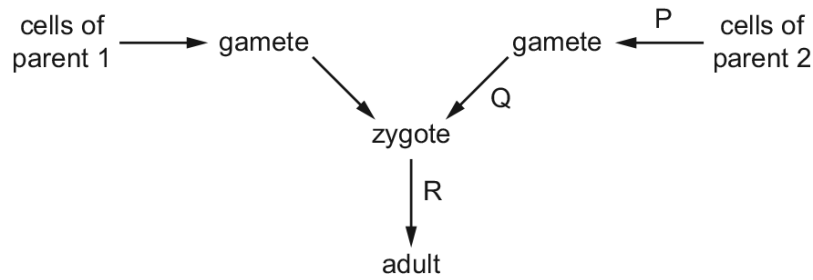
1611. 9700_s15_qp_13 Q: 19

Which diagrams show the correct relationships?



1612. 9700_w15_qp_11 Q: 19

The diagram represents stages in the life cycle of an organism.



Which arrow represents a process that results in haploid cells and which represents mitosis?

	produces haploid cells	mitosis
A	P	Q
B	Q	R
C	R	Q
D	P	R

1613. 9700_w15_qp_13 Q: 19

Which row shows the products of mitosis, reduction division (meiosis) and fertilisation?

	products of mitosis	products of meiosis	product of fertilisation
A	four diploid cells	two diploid cells	diploid cell
B	four haploid cells	four diploid cells	haploid cell
C	two diploid cells	four haploid cells	diploid cell
D	two diploid cells	two haploid cells	haploid cell

14.2 The roles of genes in determining the phenotype

1614. 9700_w15_qp_13 Q: 20

Which statements describe how a gene mutation can lead to the production of a non-functional protein?

- 1 During transcription an incorrect nucleotide is added to a DNA molecule.
- 2 A codon in the mRNA transcribed from the mutated gene is changed.
- 3 The order of the bases in an anticodon on tRNA is altered during translation.

A 1, 2 and 3 **B** 1 and 2 only **C** 2 and 3 only **D** 2 only