

2002 HIGHER SCHOOL CERTIFICATE EXAMINATION
Biology

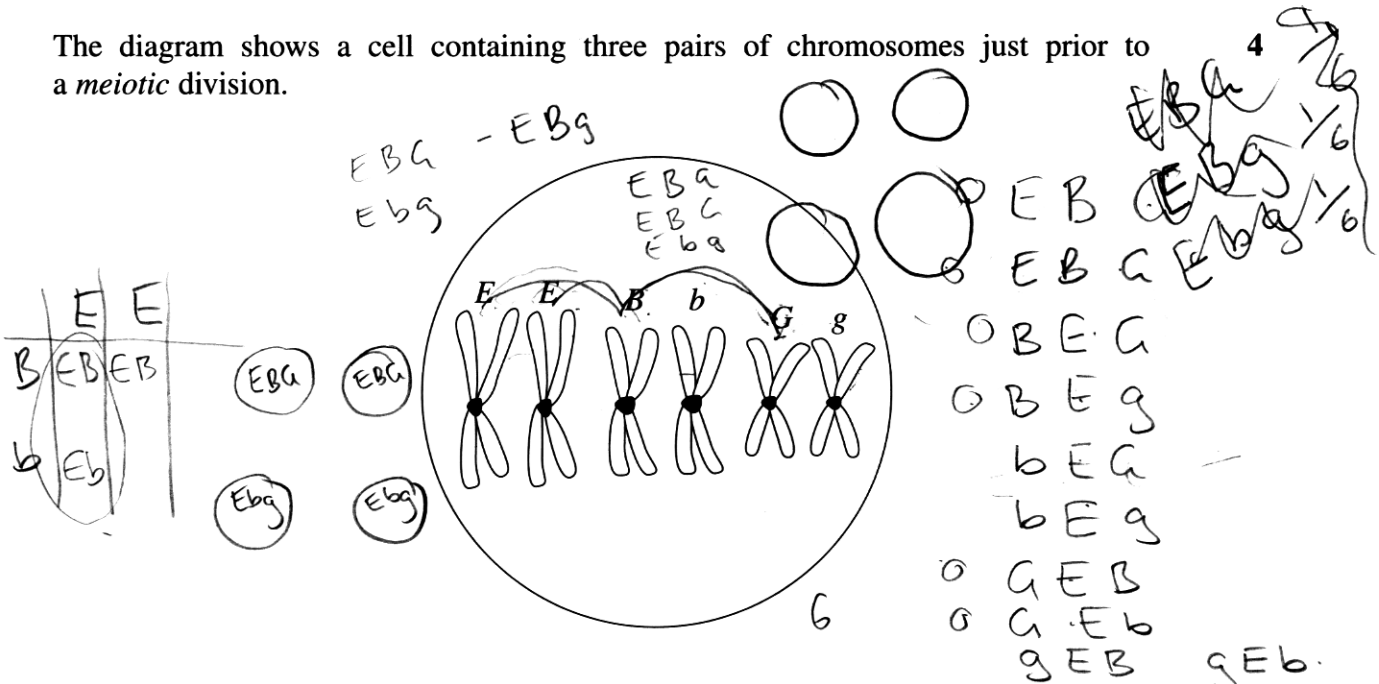
Section I – Part B (continued)

551

Marks

Question 22 (4 marks)

The diagram shows a cell containing three pairs of chromosomes just prior to a meiotic division.



Assuming that random segregation occurs, construct a table that lists the possible genotypes that could be produced and states the expected frequency for each genotype.

Genotype	Frequency
EBG	$\frac{1}{2}$
Ebg	$\frac{1}{6}$
eBG	$\frac{1}{6}$
eBg	$\frac{1}{6}$

