

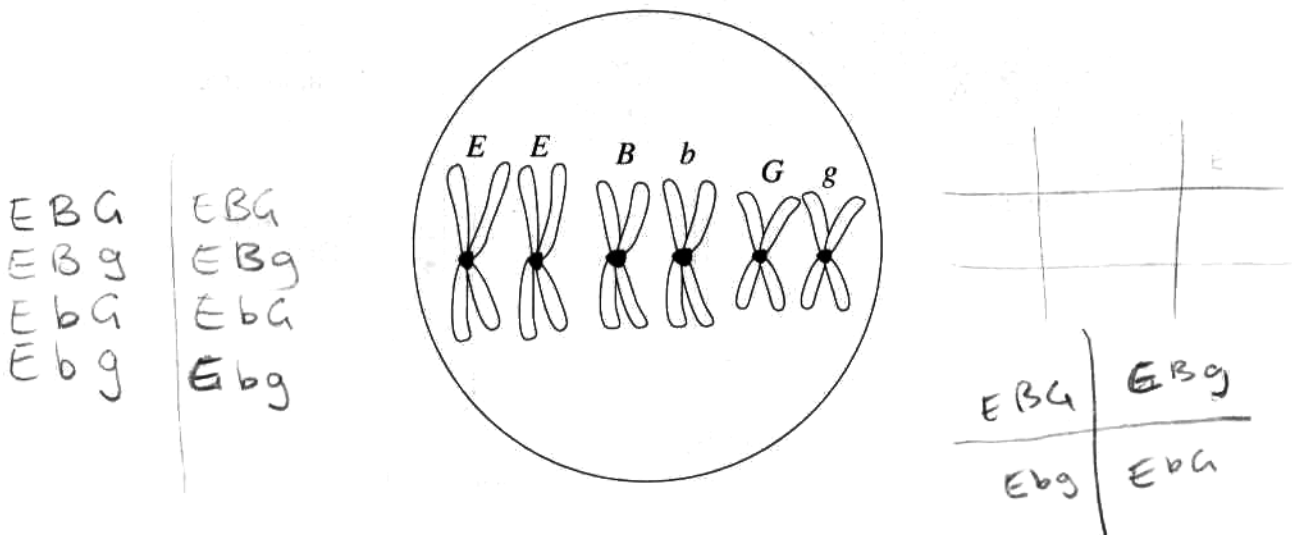
2002 HIGHER SCHOOL CERTIFICATE EXAMINATION  
**Biology**

Section I – Part B (continued)

Marks

Question 22 (4 marks)

The diagram shows a cell containing three pairs of chromosomes just prior to a meiotic division. 4



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.

Possible Genotypes	Expected Frequency
EBG	$\frac{2}{8} = \frac{1}{4}$
EBg	$\frac{1}{4}$
EbG	$\frac{1}{4}$
Ebg	$\frac{1}{4}$