2002 HIGHER SCHOOL CERTIFICATE EXAMINATION
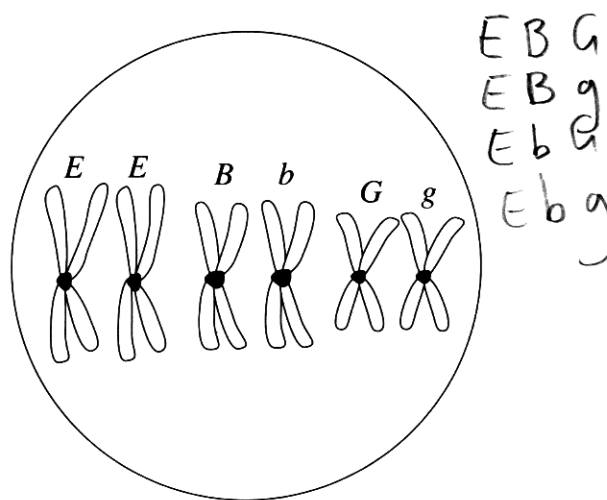
Biology

Section I – Part B (continued)

Marks

Question 22 (4 marks)

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

possible genotypes	frequency (%)
E B G	25%
E B g	25%
E b G	25%
E b g	25%

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