2002 HIGHER SCHOOL CERTIFICATE EXAMINATION

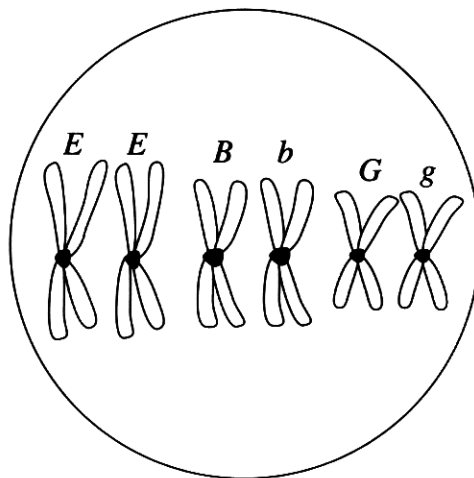# Biology

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.

EBG   EbG   Ebg   EBg

Possible genotypes	expected frequency
E B G	2
Eb G	2
E bg	2
EBg	2

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