2002 HIGHER SCHOOL CERTIFICATE EXAMINATION

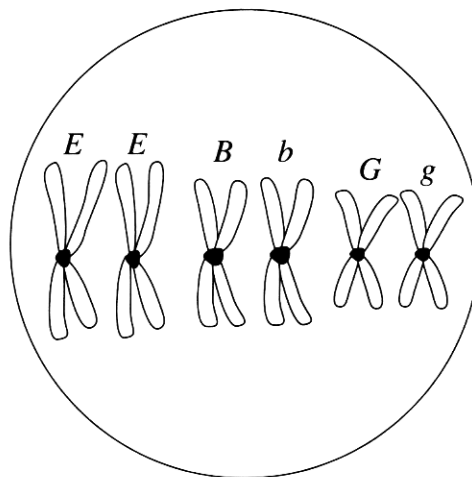# Biology

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
E	B	G	1/4
E	b	G	1/4
E	B	g	1/4
E	b	g	1/4