

2002 HIGHER SCHOOL CERTIFICATE EXAMINATION
Biology

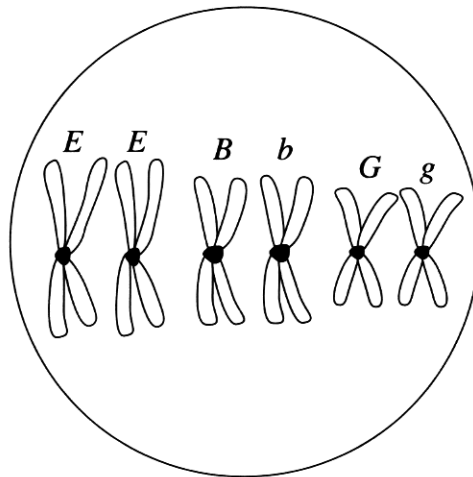
Section I – Part B (continued)

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.

	E	E
E	EE	EE
E	EE	EE

	B	b
B	BB	Bb
b	Bb	bb

	G	g
G	GG	Gg
g	Gg	gg

The expected genotypes are. *EE, Bb, Gg.*