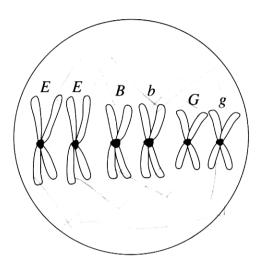
2002 HIGHER SCHOOL CERTIFICATE EXAMINATION Biology

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.



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.

Genotypes	E	E	B	þ	G	9
E	EE	EE	EB	EP	Ea	Eq
encentrations in the control of the	EE	EE	EB	Eb	Eq	Eq
B	BE	BE	BB	Вb	Ba	Ba
Because the second of the seco	bE	bE	bB	рр	ba	bg
G	aE	ae	GB	ab	G G	ag
9	g E	g E	Bg	gb	9 a	99