

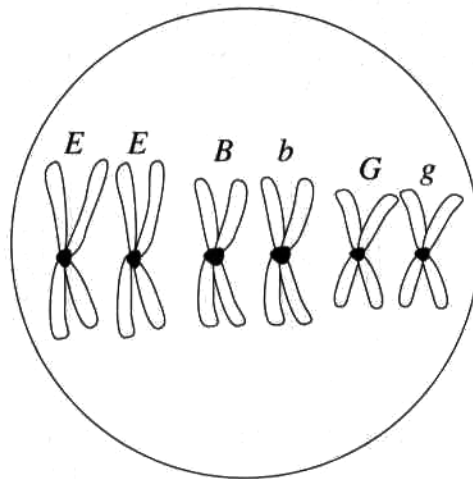
2002 HIGHER SCHOOL CERTIFICATE EXAMINATION
Biology

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.

TYPE	EBG	EbG	EBg	Ebg	GgB	Ggb	EEB	EEb	EEG	EEg	BbG	Bbg
FREQ	2	2	2	2	1	1	1	1	1	1	1	1